

SONY

KV-2092F

MODEL

SERVICE MANUAL

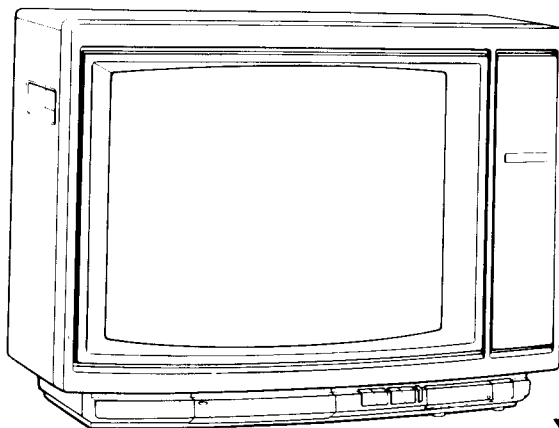
KV-2092AEB

RM-652

SERVICE MANUAL

PX Model

Chassis No. SCC-A13A-A



September, 1986

XE-4 CHASSIS

SPECIFICATIONS

Note. The service manual for RM-652 has been issued separately.

Television system	CCIR system B, G and H	CCIR system I	EIJ system M
Color system	European PAL	UK PAL	NTSC
Channel coverage	VHF: E2 - E12 Cable TV: S1 - S3 M1 - M10 U11 - U20 UHF: E21 - E68	UHF: B21 - B68	VHF: A2 - A13, J1 - J12 Cable TV: A-8 to W UHF: A14 - A78, J13 - J62

Accessories supplied

RM-652 Remote Commander with 2 batteries
(IEC designation R6, AA)
VHF telescopic dipole antenna (1)
Antenna connector (300 - 75 ohm matching transformer is built in.) (1)
UHF/VHF mixer (1)
AC power cord plug adaptor (1)

Design and specifications are subject to change without notice.

Programming system

30 programs
Automatic programming digital tuning

Picture tube

Trinitron tube
Approx. 52 cm (20 inches)
100-degree deflection (Approx. 49 cm screen measured diagonally)

Antenna

75-ohm standard antenna socket
(DIN 45325/IEC 169-2)

Speaker

Two-way: Approx. 4 × 6.2 cm tweeter
Approx. 8 × 12 cm woofer

Audio output

2 W (with 10% harmonic distortion)

Power requirements

110 - 240 AC, 50/60 Hz

Power consumption

107W

Dimensions

Approx. 602 × 447 × 476 mm (w/h/d)
(23³/₄ × 17⁵/₈ × 18³/₄ inches)

Weight

Approx. 21.5 kg (47 lb 6 oz)



TRINITRON® COLOR TV
SONY®

CTV

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WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.


WARNUNG!!

DAS GERÄT NUR ÜBER EINEN TRENNTRANSFORMATOR BETREIBEN, UM ELEKTRISCHE SCHLÄGE ZU VERMEIDEN, DA DAS CHASSIS UNTER SPANNUNG STEHT! DAS CHASSIS DIESES GERÄTS IST DIREKT AN DIE WECHSELSTROMLEITUNG ANGESCHLOSSEN.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

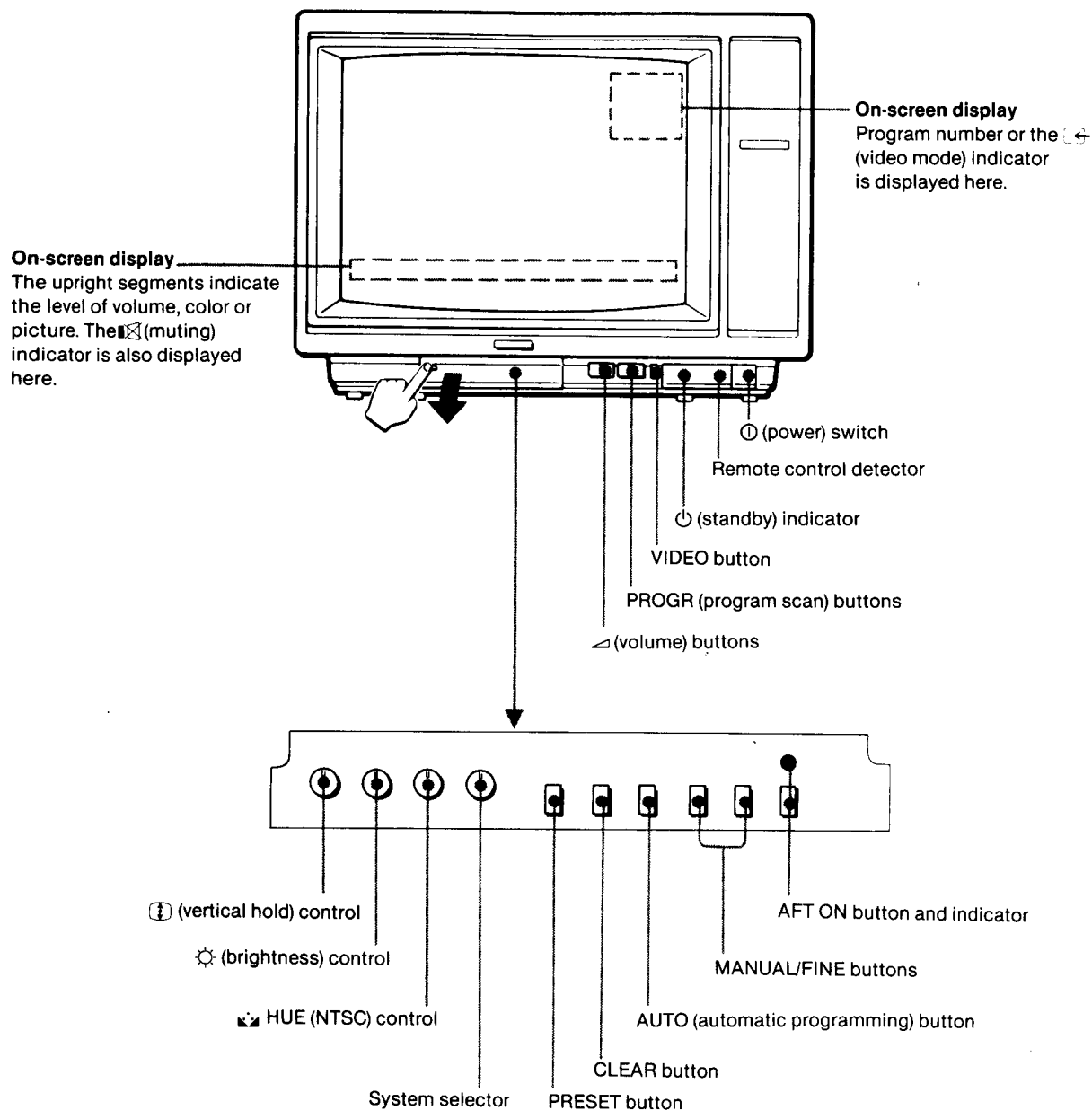
SICHERHEITSHINWEIS FÜR KOMPONENTEN!!

DIE IN DEN SCHALTBILDERN SCHRÄFFIERT EINGEZEICHNETEN UND DURCH DAS ZEICHEN  GEKENNZEICHNETEN KOMPONENTEN SIND FÜR DIE BETRIEBSSICHERHEIT KRITISCH. DIESE KOMPONENTEN SIND DURCH SOLCHE SONY TEILE ZU ERSETZEN, DEREN TEILENUMMERN IM HANDBUCH ANGEGEBEN SIND. AUF FÜR DIE BETRIEBSSICHERHEIT KRITISCHE SCHALTUNGSEINSTELLUNGEN WIRD IN DEM VON SONY HERAUSGEGEBENEN HANDBUCH HINGEWIESEN. BEFOLGEN SIE DIESE ANWEISUNGEN STETS, WENN KRITISCHE KOMPONENTEN AUSGEWECHSELT WERDEN ODER VERDACHT AUF FUNKTIONSSTÖRUNGEN BESTEHT.

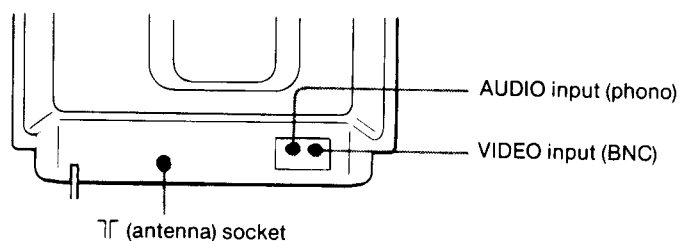
SECTION 1 GENERAL

1-1. FUNCTION OF CONTROLS

Front




Rear



1-2. PROGRAMMING

Automatic and manual programming are available. Automatic programming presets receivable channels automatically from the lowest frequency to the highest. With manual programming you can preset a particular channel in any desired program position.

Preparations

- Turn on the TV.
- Press VIDEO if the  indicator is displayed on the screen.
- Set the system selector to the appropriate position.
 - UK PAL: To view UK PAL programs
 - EUR. PAL/NTSC: To view European PAL or NTSC programs. Either of the two systems will be selected automatically.
 - NTSC: In case of extreme interference or of an extremely weak signal in NTSC system, set to this position.

AUTOMATIC PROGRAMMING

- 1 Press PRESET.
The program number on the screen blinks.
- 2 Press PROGR + or – to select the program position from which programming should start. For example, when you select the programming position 5, the automatic programming starts from position 5 and ends at position 5.
Press + for higher-numbered positions and – for lower-numbered positions.
- 3 Press AUTO.
All receivable channels will now be preset in numerical sequence. When no more channels can be found, the programming mode is released and stops at the position where the programming started. The program number on the screen lights steadily (does not blink).

MANUAL PROGRAMMING

- 1 Press PRESET.
The program number on the screen blinks.
- 2 Press PROGR + or – to select the desired program position.
- 3 Press CLEAR and then press MANUAL/FINE + or –.
The picture of a channel found first will appear.
Repeat pressing MANUAL/FINE + or – until the desired channel appears.
(Pressing CLEAR first makes tune in the channels from the lowest-frequency channel.)

Repeat steps 2 and 3 for all desired channels.

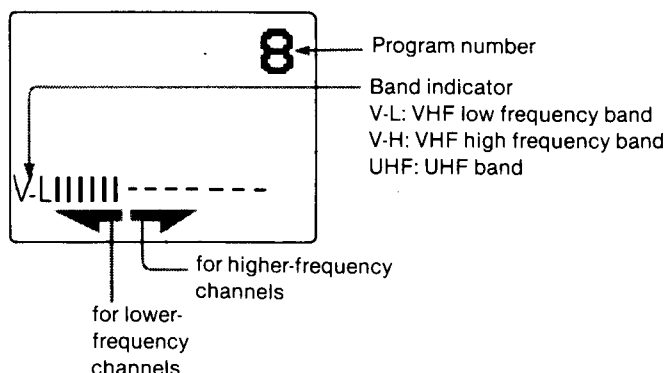
- 4 Press PRESET again.

Program position "0"

Program position "0" is reserved for video tape playback.

ON-SCREEN DISPLAY WHILE TUNING

The band in which the channel is being tuned in and upright segments will appear. The number of upright segments indicates the approximate location of the channel being tuned in within the band.



FINE-TUNING OF A WEAK STATION

If the picture of a particular channel is not acceptable, keep MANUAL/FINE + or – pressed with the PRESET button set to OFF until the picture becomes clearer. When either MANUAL/FINE is pressed, the automatic fine tuning on the selected channel is deactivated and the AFT indicator turns off. To view this particular channel, keep the automatic fine tuning deactivated. (When you want to restore the automatic fine tuning on the channel which has been fine tuned with MANUAL/FINE, press AFT ON).

SKIPPING UNUSED PROGRAM POSITIONS

Press CLEAR when an unused program position number blinks while programming. Then when you press PROGR + or –, the unused position will be skipped.

1-3. OPERATION

VIEWING TV PROGRAMS

Usually the Remote Commander is all that is needed to operate the unit in everyday use.

- 1 Press to turn on the TV.
- 2 Pointing the head of the Commander towards the remote control detector on the unit, select the TV program position in either of two ways:

- Press **PROGR** + or –.
- Press the **program number buttons**.
For 0 through 9, press the corresponding units-digit number.
For 10 through 19, press “1 –” for the tens-digit and then the number for the units-digit.
For 20 through 29, press “2 –”, and then the number for units-digit.

Note: If you do not press a units-digit button within several seconds while selecting more than ten, the previous program position will be recalled.

- 3 Adjust the volume by pressing + or – : + for louder and – for lower. The upright segments will appear on the screen to indicate the level of volume.
- 4 To put the TV in the standby mode, press .
The standby indicator on the unit will light up. When the TV is in the standby mode, you can view the TV by pressing any of the program number buttons.

To mute the sound immediately, press .
The indicator will appear on the screen. Press it again to restore the sound.

To turn off the TV mains power, press on the TV.
The TV cannot be operated with the Commander when the mains power is off.

Note

If the picture or sound of an NTSC program appears abnormal when the system selector is set to EUR.PAL/NTSC, set the selector to NTSC.

PICTURE ADJUSTMENTS

Press : + for more color intensity or – for less color intensity.

Press : + to increase picture contrast with vivid color or – to decrease contrast with soft color.

When or is pressed, the upright segments will appear on the screen to indicate the level of color () or picture contrast ().

To restore the factory preset picture contrast and color, press .

Turn on the TV: clockwise for more brightness or counterclockwise for less brightness.

Turn on the TV: clockwise to make the tones greenish or counterclockwise to make them purplish. (This control is only effective in the NTSC system.)

Turn on the TV, when the picture rolls vertically.

VTR CONNECTION

Connect a VTR to the socket and connect the external antenna to the VTR.

When operating the VTR

Be sure to set the system selector on the TV to the position corresponding to the system used for the VTR program.

If your VTR has audio/video outputs

In addition to the connection to the socket, connect the audio/video outputs on the VTR to the AUDIO/VIDEO inputs on the TV. Use a connecting cord which matches the VTR's outputs. This connection provides better-quality playback picture and sound. To view the VTR programs when this connection is made, press VIDEO so that the indicator appears on the screen.

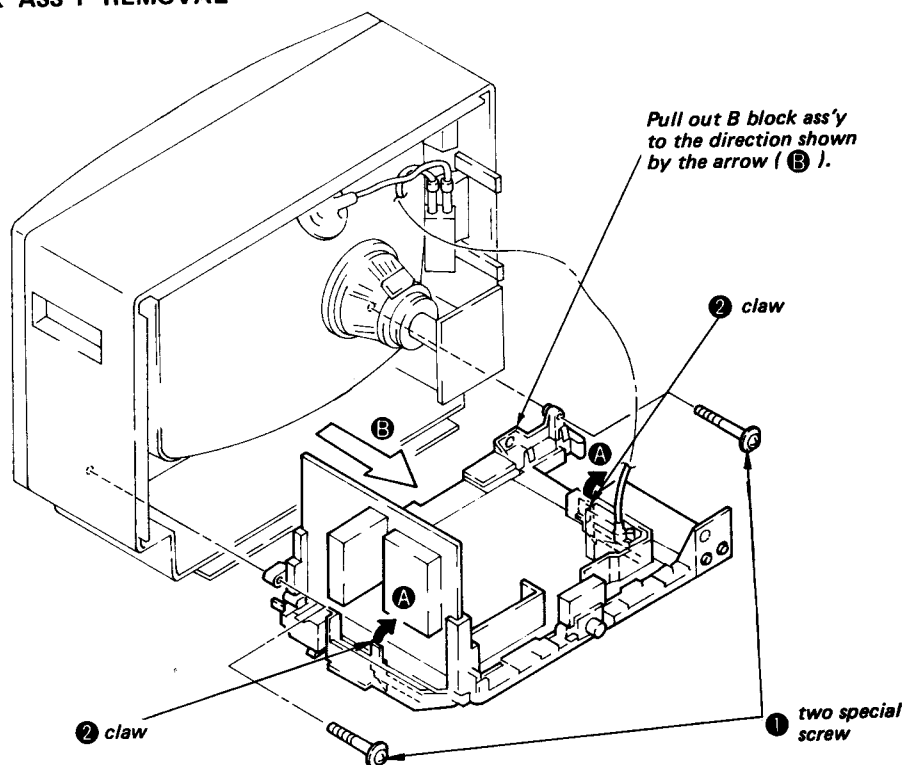
For details on the connections and VTR operations, see the instruction manual of the VTR.

Keep the VTR away from the TV, if the display or sound is affected.

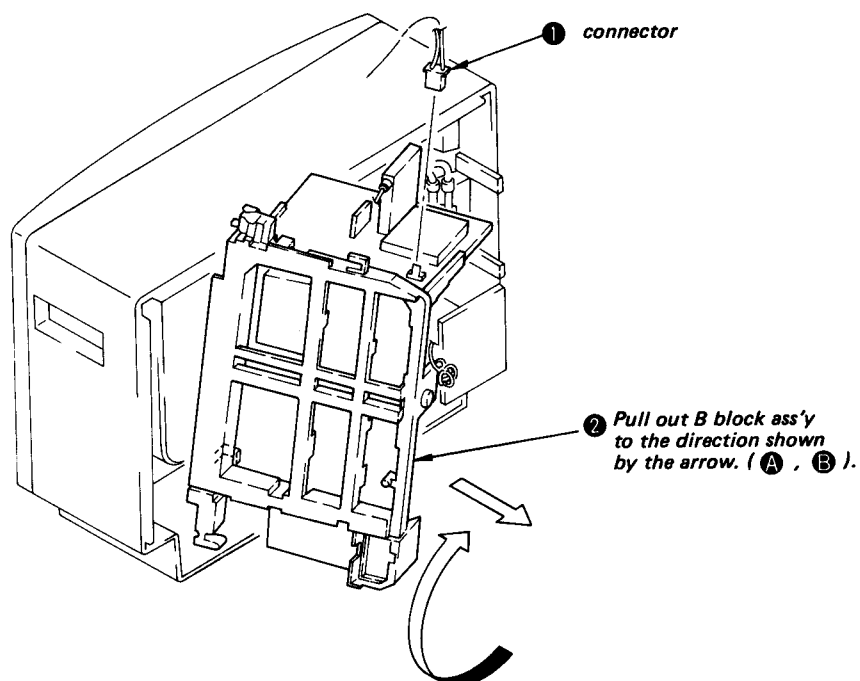
SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

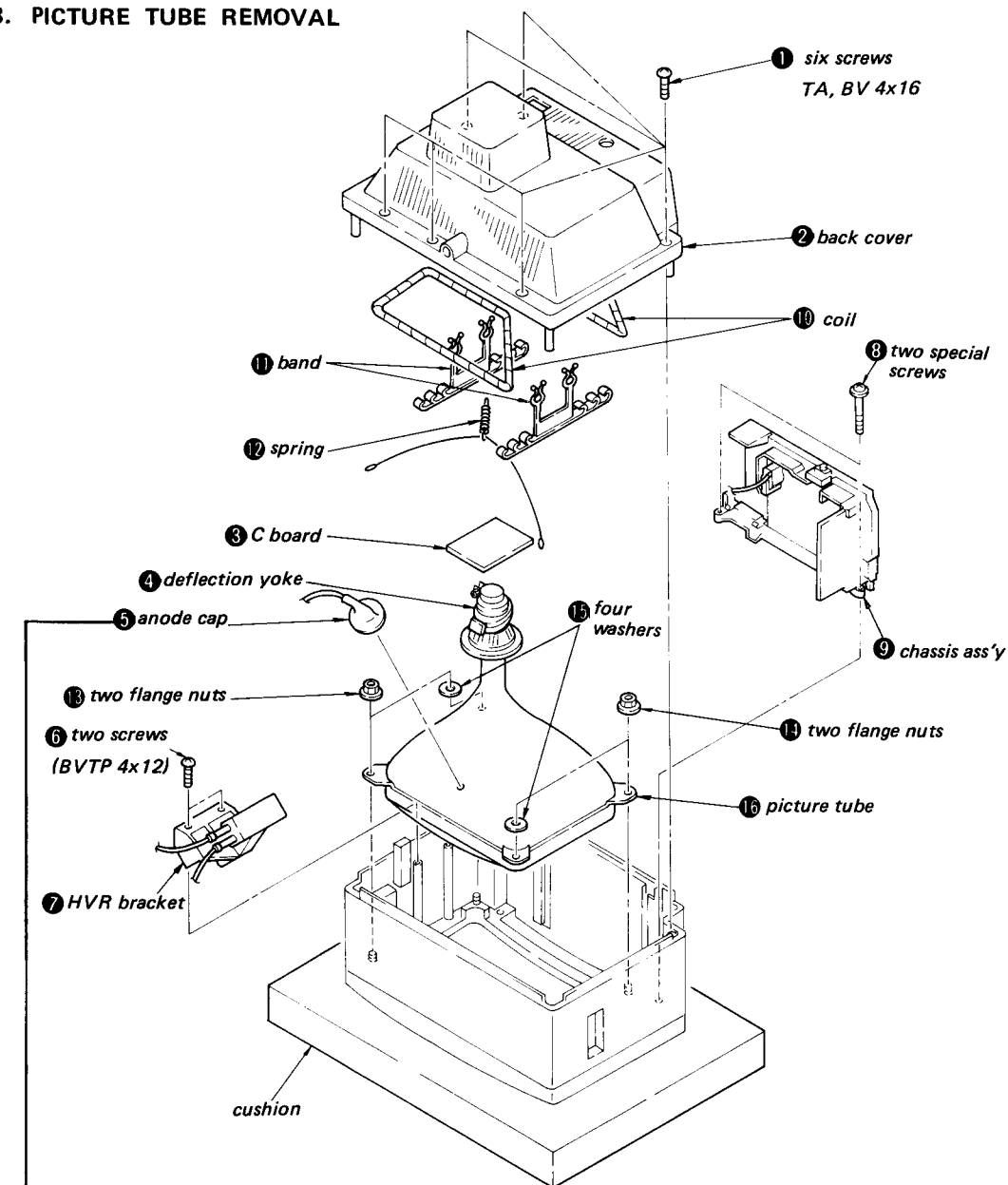
2-1. B BLOCK ASS'Y REMOVAL



2-2. SERVICE POSITION FOR B BOARD



2-3. PICTURE TUBE REMOVAL



• Removing Procedures

- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a).
- ② Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow (b).
- ③ When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling it in the direction of the arrow (c).

SECTION 3 SETUP ADJUSTMENTS

3-1. SETUP ADJUSTMENTS

- The following adjustment should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

- PICTURE control normal
- ☆ BRIGHTNESS control . . . mechanical center

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. White Balance
4. Sub Bright
5. Focus

Note: Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser

3-1-1. BEAM LANDING

Preparation:

- Feed in the white pattern.
 - Before starting, degauss the entire screen.
1. Loosen deflection yoke screw.
 2. Adjust purity control as shown in Fig. 3-1.
 3. Slide deflection yoke as far forward as it will go.
 4. Turn the raster signal of the pattern generator to red.
 5. Adjust purity control to center vertical red band as shown in Fig. 3-2.
 6. Slide deflection yoke back for a uniform red screen.
 7. Check green and blue rasters for uniformity by performing the same way as steps 4, 5 and 6.
 8. Tighten the deflection yoke screw.
 9. Check if mislanding appears at corners a – d as shown in Fig. 3-3. If mislanding is observed, correct it as shown in Fig. 3-3.
 10. Confirm that beam landing is correct when the receiver is faced in all directions.

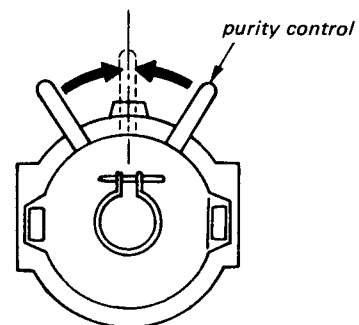


Fig. 3-1.

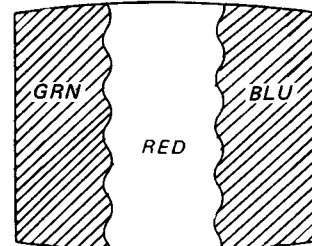


Fig. 3-2.

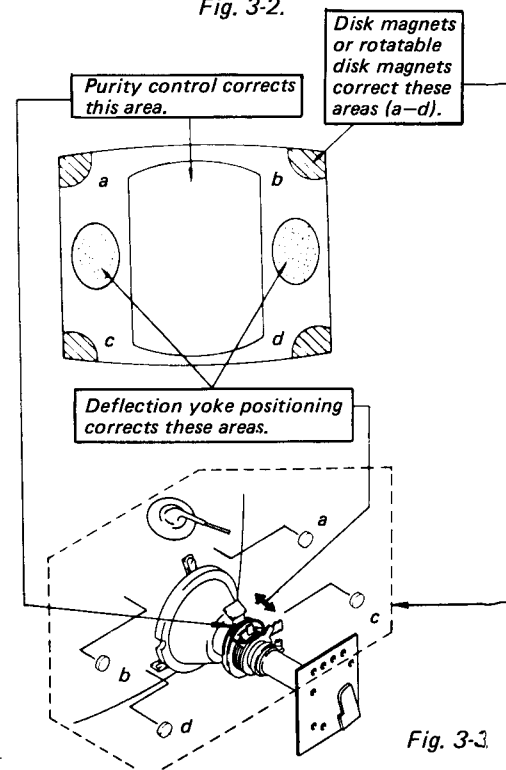
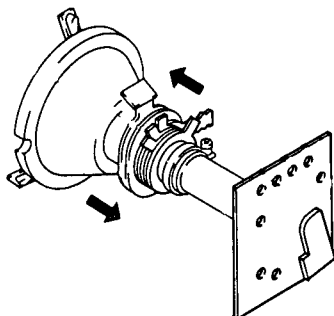
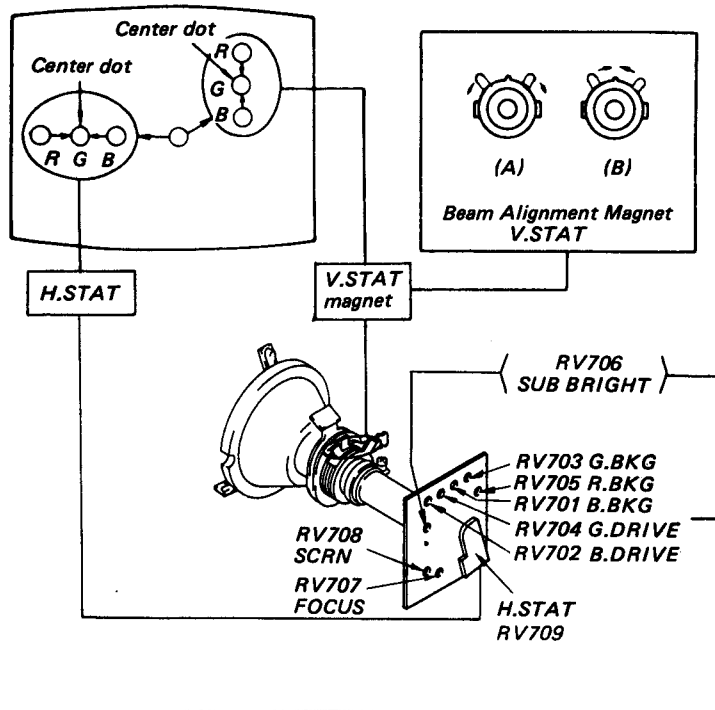


Fig. 3-3

3-1-2. CONVERGENCE**Preparation:**

- Before starting, perform FOCUS, H.SIZE and V.SIZE adjustments.
- Set BRIGHT control to minimum.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence**3-1-3. WHITE BALANCE**

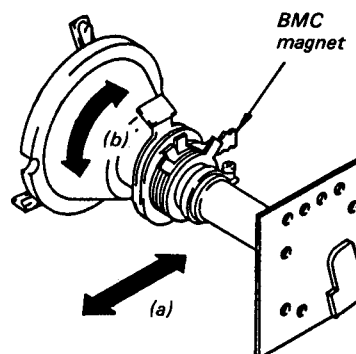
1. Feed in a cross-hatch pattern.
2. Turn PICTURE and BRIGHTNESS controls fully counterclockwise.
3. Turn RV702(G.DRIVE) and RV704(B.DRIVE) fully clockwise.
4. Set RV701(B. BKG), RV703(G.BKG), RV705(R. BKG) and RV709 (SUB BRIGHT) to mechanical center.
5. Turn COLOR controls fully counterclockwise.
6. Turn RV708 (SCRN) slowly to obtain a faintly visible cross-hatch. Note the color that first becomes visible by turning RV708. Do not turn a BKG control for this color.

If blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.

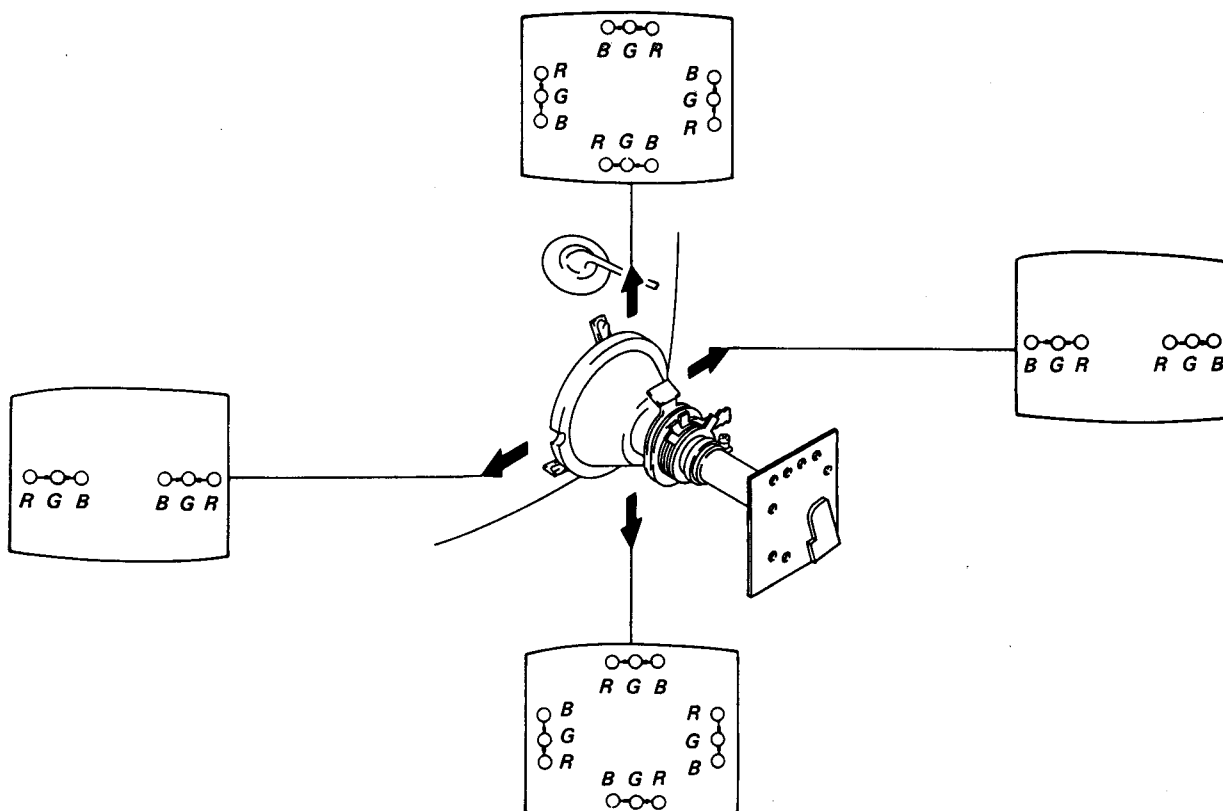
**3-1-4. SUB BRIGHT**

1. Feed in a cross-hatch pattern.
2. Turn PICTURE and BRIGHTNESS controls fully counterclockwise.
3. Turn RV706 (SUB BRIGHT) slowly to obtain a faintly visible cross-hatch.
7. Adjust the other two BKG controls for best white balance (neutralgray) of the faint cross-hatch. Turn the raster signal of the pattern generator to white pattern.
8. Turn PICTURE and BRIGHTNESS controls fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
9. Repeat Steps 7 through 8 several times.

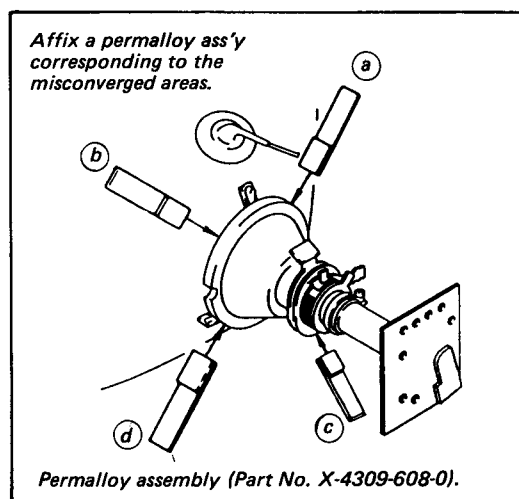
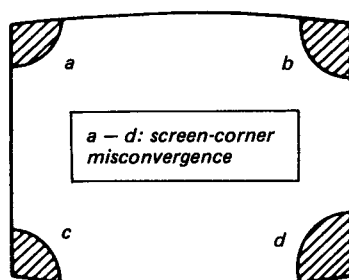
(2) Dynamic Convergence Adjustment

Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
1. Loosen deflection yoke screw.
 2. Remove deflection yoke spacers.
 3. Move the deflection yoke for best convergence as shown below.
 4. Tighten the deflection yoke screw.
 5. Install the deflection yoke spacers.



(3) Screen-corner Convergence



3-1-5. FOCUS

Adjust RV707 (FOCUS) control for a best picture.

SECTION 4

SAFETY RELATED ADJUSTMENTS

KV-2092AEB
RM-652

KV-2092AEB
RM-652

R829 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with \blacksquare on the schematic diagram).

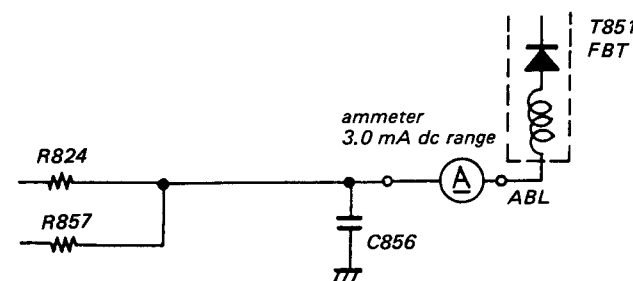
\blacksquare R829
IC501, Q806, Q807, Q808, Q809, D803, D804, C532, C831, C832, C833, C834, C835, C836, C856, C857, R534, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R857, R858, R859.

(1) Preparation before confirmation

1. Turn the POWER switch ON, and receive dot (NTSC) signals and set the PICTURE and BRIGHTNESS controls to maximum.
2. Confirm that the voltage of the protector terminal of H.V.R. is 15.0 ± 3.0 DC when the set is operating normally with 120V AC supply.

(2) Hold-down operation confirmation

1. Connect an ammeter as shown to measure the I ABL terminal current.



2. Turn the POWER switch ON and receive white pattern (NTSC) signal and adjust the I ABL terminal current 1300 ± 30 μ A by PICTURE and BRIGHTNESS controls.
3. Apply DC voltage of over 16.4 V gradually to the protector terminal of H.V.R. via IT40 from the DC stabilized power source. Confirm that the minimum voltage is more than 16.4 V DC and less than 17.20 V DC whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

4. Turn the POWER switch ON and receive dot (NTSC) signal and adjust the I ABL terminal current 70 ± 30 μ A by PICTURE and BRIGHTNESS controls.
5. Apply DC voltage of over 17.9 V gradually to the protector terminal of H.V.R. via IT40 from the DC stabilized power source. Confirm that the minimum voltage is more than 17.9 V DC and less than 18.70 V DC whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

6. Disconnect the DC stabilized power source and voltage measuring equipment.

(3) Hold-down readjustment

When step (2) is not satisfied, readjustment should be performed by altering the resistance value of R829 (a component marked with \blacksquare).

(4) Confirmation of hold-down erroneous operation

1. Turn the POWER switch ON, and receive dot signals and set the PICTURE and BRIGHTNESS controls to minimum.
2. Confirm that the hold-down circuit does not operate by turning the POWER switch ON and OFF repeatedly several times.

NOTE: If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set immediately.

3. Turn the POWER switch ON, and receive dot signals and entirely white signals and set the PICTURE and BRIGHTNESS controls to maximum.
4. Confirm that the hold-down circuit does not operate by performing switchover of the channels of the dot signals and entirely white signals several times.

NOTE: If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set immediately.

NOTE: If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set immediately.

5. If the above-mentioned steps 1 to 4 are not satisfied reconfirm steps (2) to (4) by altering the R829 smaller resistance value (a component marked with \blacksquare).

CONFIRMATION WHEN REPLACING H.V.R. (HIGH-VOLTAGE REGISTOR)

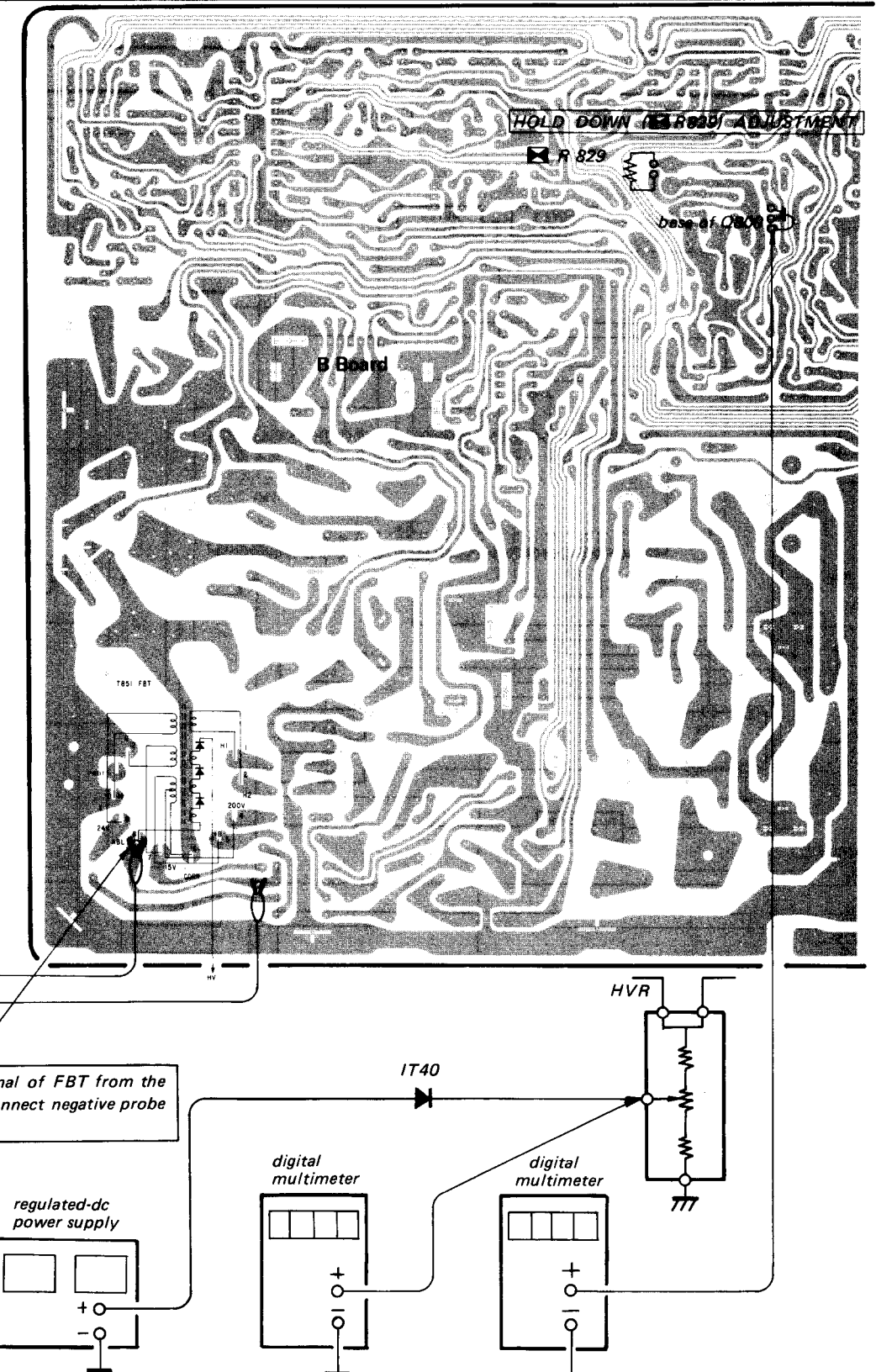
The following adjustments should always be performed with reference to whether an X-ray radiation control circuit is connected or not when replacing H.V.R. (High-Voltage Registor)

* This check is to be performed when H.V.R. only is replaced, and has no relation to the hold-down circuit readjustment of parts marked \blacksquare .

(1) Connection confirmation

1. Turn the POWER switch ON, and receive dot signals and set the PICTURE and BRIGHTNESS controls to maximum.
2. When the set is operating normally with 120 V DC supply, confirm the voltage of the connection point for base of Q809 is 15.0 ± 3.0 V dc.

* Use a digital multimeter whose input impedance is over $100M\Omega$ when confirming the voltage of HVR.

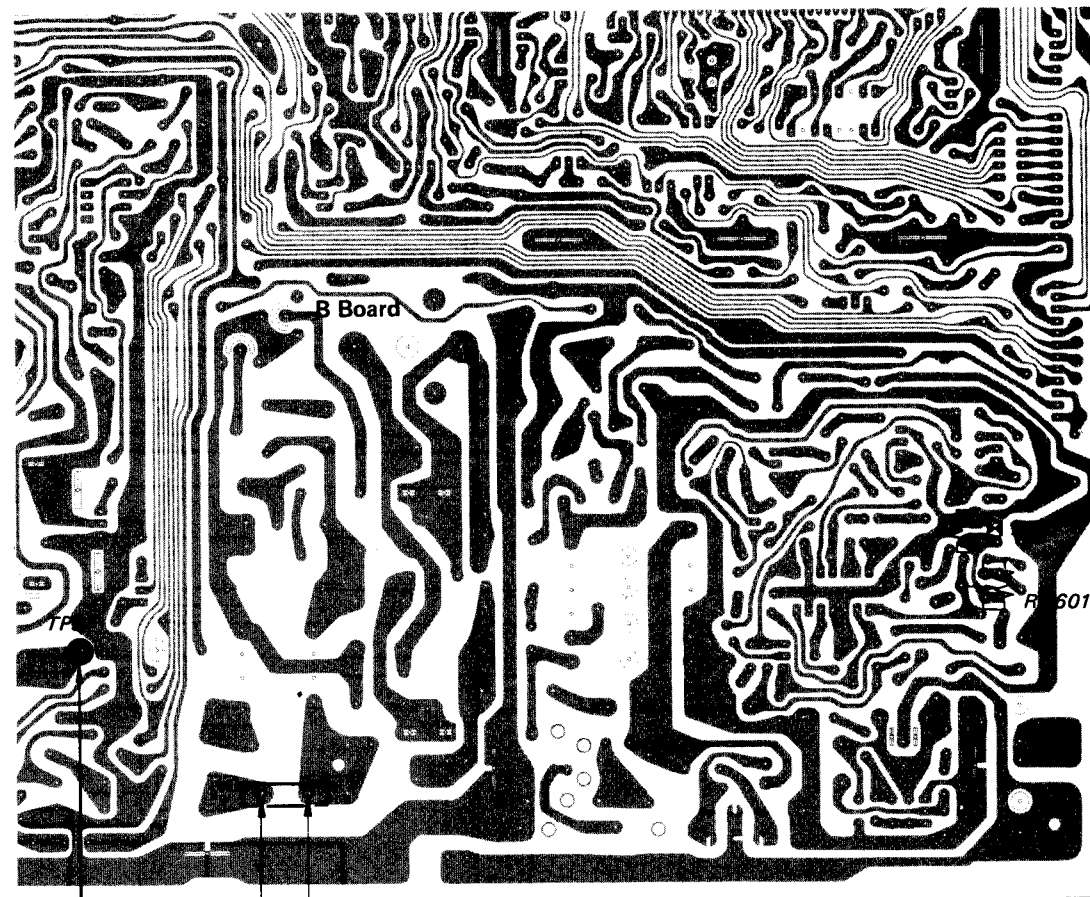
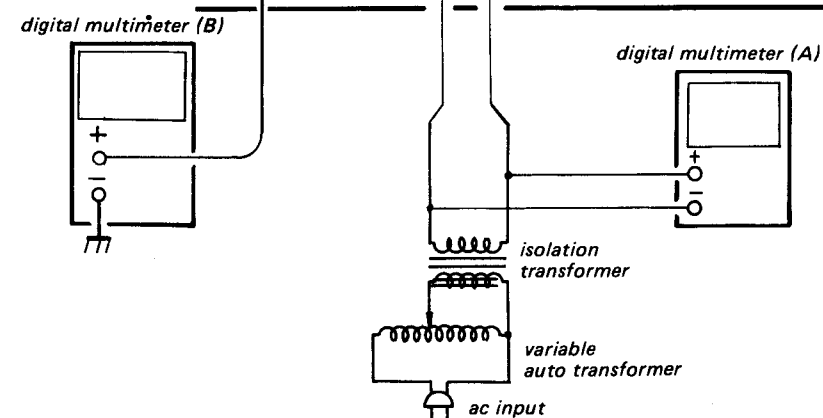


+B MAX (R687) ADJUSTMENT

When replacing the following components, make this adjustment.

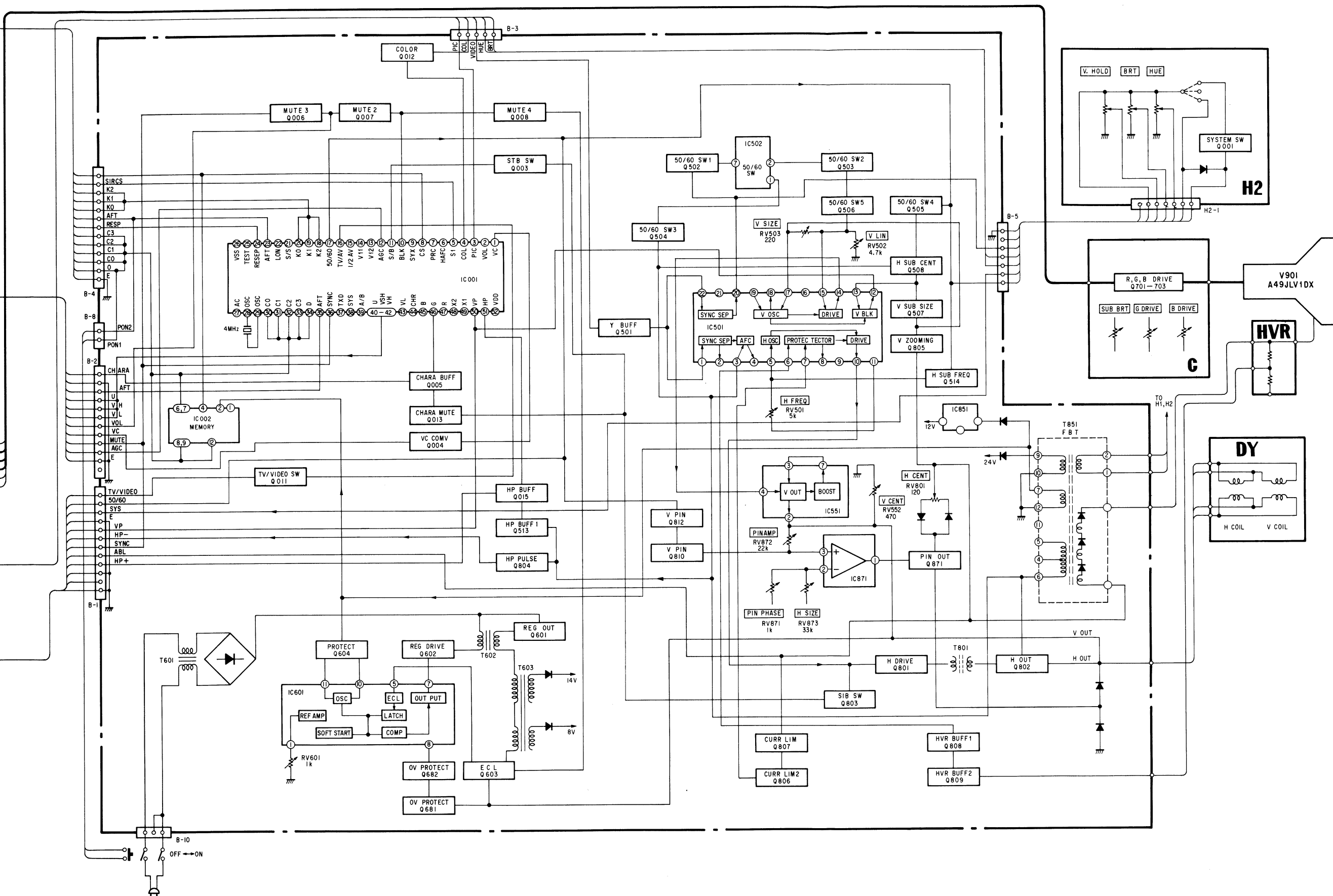
<input checked="" type="checkbox"/>	R687
<input checked="" type="checkbox"/>	IC601, D606, L606, RV601, R601, R602, R603, R604, R605, R623, R624, R625, R626, R629, R660, R687

1. Feed in a dots pattern signal from color-bar/pattern generator.
2. Set the controls as shown below.
PICTURE control } minimum
BRIGHT control }
3. Readjust the variable autotransformer for 264 V ac on the digital multimeter (A).
4. Turn RV601 so that the voltage of digital multimeter (B) is maximum.
5. Confirm that the voltage reading on the digital multimeter (B) is less than 119.5 V dc.
6. If the step 5 is not satisfied, select the value of R687 so that the specification is met.

**+B MAX (R687) ADJUSTMENT**

5-1. BLOCK DIAGRAM





SECTION 6
EXPLODED VIEWS

NOTE:

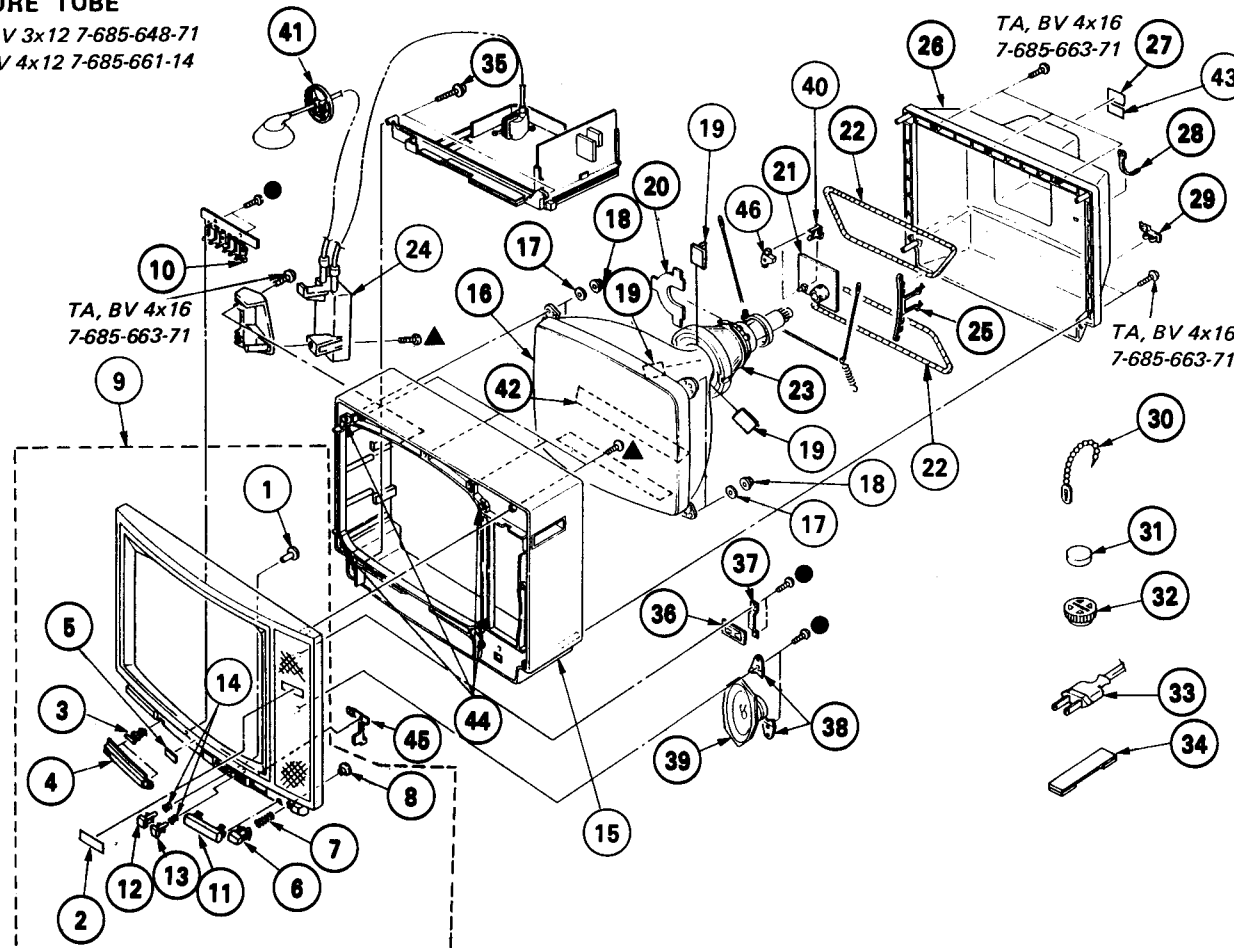
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

6-1. PICTURE TUBE

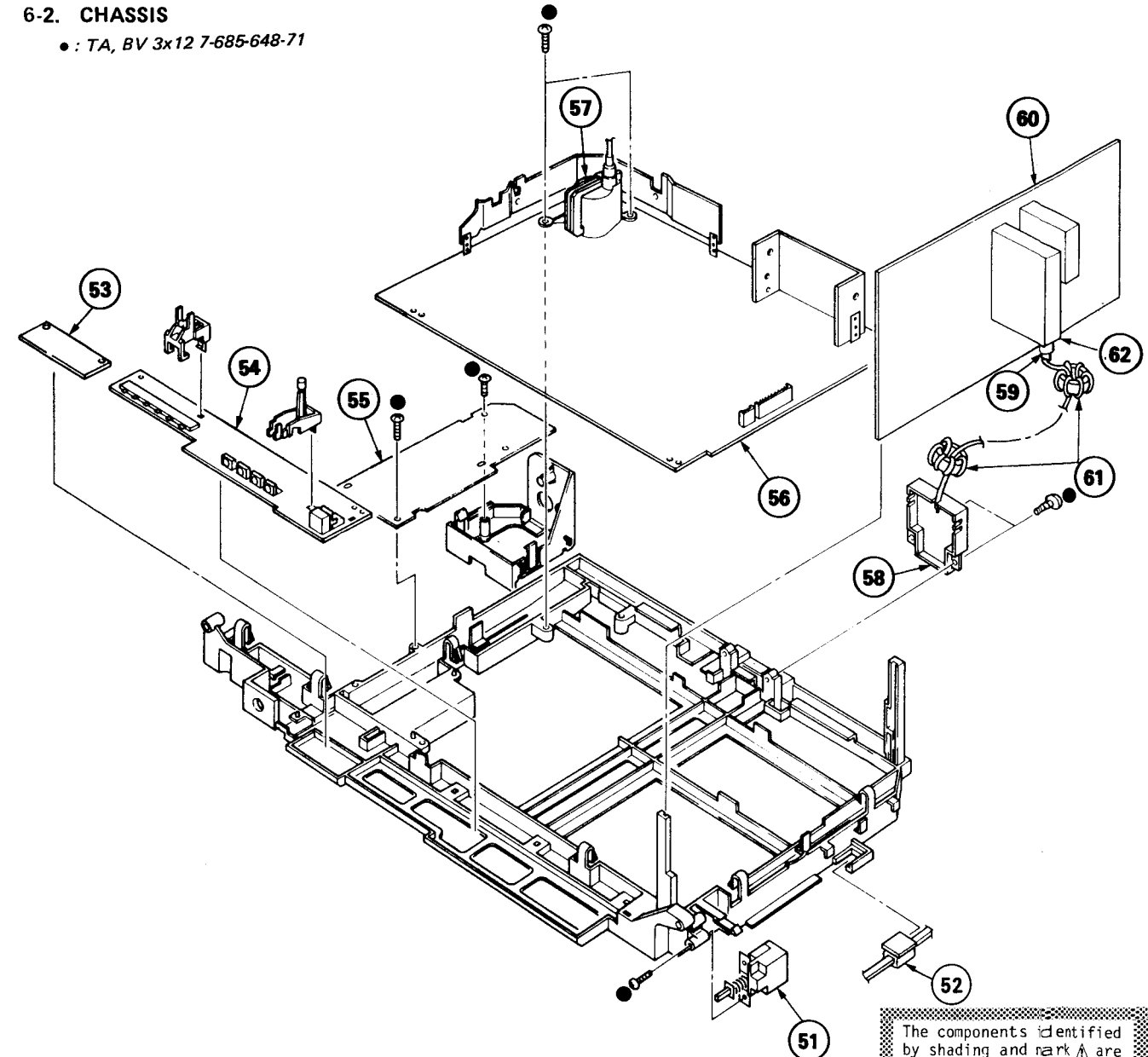
- : TA, BV 3x12 7-685-648-71
- ▲: TA, BV 4x12 7-685-661-14



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	*4-376-443-01	STOPPER (A), BUTTON		24	▲1-230-940-11	RESISTOR ASSY, HIGH-VOLTAGE	
2	X-4376-401-1	EMBLEM ASSY, TRINITRON		25	*4-374-720-01	BAND, COIL, DEGAUSS	
3	3-662-365-00	SHAFT (S), DOOR		26	4-376-474-11	COVER, REAR	
4	X-4376-462-1	DOOR ASSY, CONTROL		27	*4-380-095-01	LABEL, MODEL NUMBER	
5	*4-374-115-01	EMBLEM, SONY		28	3-701-007-00	BAND, BINDING	
6	4-376-411-01	BUTTON, POWER		29	4-329-127-00	CLAMP, CORD	
7	3-561-888-02	SPRING, COMPRESSION		30	4-308-870-00	CLIP, LEAD WIRE	
8	*4-376-405-01	STOPPER, BUTTON		31	1-452-032-00	MAGNET, DISK; 10MM Ø	
9	X-4376-464-1	BEZEL ASSY	1,2,5-8,11-14	32	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
10	4-376-469-11	BUTTON (A), MULTI		33	▲1-534-817-71	CORD, POWER	
11	4-376-454-31	WINDOW, ORNAMENTAL		34	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
12	4-376-448-01	PUSH BUTTON (-)		35	4-319-520-00	SCREW, SPECIAL (+PW4X30)	
13	4-376-447-01	PUSH BUTTON (+)		36	1-503-256-00	SPEAKER (040T004)	
14	4-367-209-00	SPRING, COMPRESSION		37	*4-376-466-01	RETAINER, SPEAKER	
15	X-4376-465-1	CABINET ASSY	44	38	*4-338-106-00	HOLDER, SPEAKER	
16	▲8-737-351-05	CRT (A49JLV10X)		39	1-503-542-11	SPEAKER	
17	4-373-615-02	WASHER, CRT POSITIONING		40	4-374-704-01	COVER (REAR LID), CV VOL	
18	4-306-034-00	FLANGE NUT, (B) 5MM		41	*4-369-234-01	HOLDER, HW CABLE	
19	3-703-003-00	SPACER, DY		42	4-372-556-01	CLOTH, BLOTING	
20	1-452-277-00	MAGNET, BMC		43	4-010-023-05	LABEL, X-RAY	
21	*A-1330-722-A	C BOARD, COMPLETE		44	3-703-025-12	BOLT M5, HEXAGON-HEAD	
22	▲1-426-244-22	COIL, DEMAGNETIZATION		45	4-376-449-01	BUTTON, SELECTION	
23	▲1-451-272-12	DEFLECTION YOKE (SY-140A)		46	4-374-717-01	COVER (MAIN), CV VOL	

6-2. CHASSIS

- : TA, BV 3x12 7-685-648-71



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	▲1-554-966-12	SWITCH, PUSH (AC POWER)(1 KEY)		57	▲1-439-363-31	TRANSFORMER ASSY, FLYBACK	
52	▲4-022-115-01	HOLDER, AC CORD		58	▲1-536-494-11	ANT TERMINAL ASSY	
53	*1-619-223-11	H2 BOARD		59	*1-556-877-51	CABLE, PIN	
54	*1-619-222-11	H1 BOARD		60	*A-1296-163-A	A BOARD, COMPLETE	
55	*A-1385-039-A	K BOARD, COMPLETE		61	1-543-171-00	CORE, RING	
56	*A-1135-393-A	B BOARD, COMPLETE		62	▲1-463-661-11	TUNER, ET (BT-886)	

SECTION 7
ELECTRICAL PARTS LIST

B

B

NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

- The components identified by **■** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- RESISTORS
- All resistors are in ohms
 - F : nonflammable

- COILS
- MMH : mH, UH : μ H

- CAPACITORS
- MF : μ F, PF : μ PF

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	*A-1135-393-A	B BOARD, COMPLETE *****		C029	1-102-129-00	CERAMIC 0.01MF 10% 50V	
	4-302-428-00	HEAD, WASHER, TAPPING SCREW		C030	1-123-308-00	ELECT 220MF 20% 10V	
	*4-323-833-00	HEAT SINK, PIN OUT		C032	1-106-196-00	MYLAR 0.01MF 10% 100V	
	*4-367-204-00	HOLDER (REG OUT), TRANSFORMER		C033	1-102-745-00	CERAMIC 7PF 0.5PF 50V	
	*4-367-226-00	HOLDER, H OUT		C034	1-102-978-00	CERAMIC 220PF 5% 50V	
	*4-367-227-00	HOLDER, REGULATOR OUT					
	*4-367-326-00	CASE, SHIELD (MAIN)		C037	1-102-951-00	CERAMIC 15PF 10% 50V	
	*4-367-327-00	CASE (BOTTOM LID), SHIELD		C501	1-106-212-00	MYLAR 0.047MF 10% 100V	
	*4-380-097-01	CASE (UPPER LID), SHIELD		C502	1-123-380-00	ELECT 1MF 20% 50V	
	4-381-730-01	SPACER, MICA		C503	1-108-616-91	MYLAR 0.0015MF 10% 100V	
				C504	1-136-173-00	FILM 0.47MF 5% 50V	
		CONNECTOR		C505	1-106-210-00	MYLAR 0.039MF 10% 100V	
				C506	1-123-380-00	ELECT 1MF 20% 50V	
				C507	1-106-196-00	MYLAR 0.01MF 10% 100V	
				C508	1-123-380-00	ELECT 1MF 20% 50V	
				C509	1-123-333-00	ELECT 100MF 20% 16V	
B1	*1-506-519-11	PLUG, CONNECTOR (PC BOARD) 12P		C510	1-123-379-00	ELECT 0.47MF 20% 50V	
B2	*1-506-519-11	PLUG, CONNECTOR (PC BOARD) 12P		C512	1-131-369-00	TANTALUM 4.7MF 10% 16V	
B3	*1-506-517-11	PLUG, CONNECTOR (PC BOARD) 5P		C513	1-106-212-00	MYLAR 0.047MF 10% 100V	
B4	*1-564-449-11	PLUG, CONNECTOR (2.5MM) 13P		C515	1-123-321-00	ELECT 220MF 20% 16V	
B5	*1-564-443-11	PLUG, CONNECTOR (2.5MM) 7P		C516	1-108-630-91	MYLAR 0.022MF 10% 100V	
B6	*1-564-354-00	PLUG, CONNECTOR (2.5MM) 3P					
B7	*1-508-768-00	6P PLUG		C517	1-102-529-00	CERAMIC 100PF 5% 50V	
B8	*1-564-353-00	PLUG, CONNECTOR (2.5MM) 2P		C518	1-106-196-00	MYLAR 0.01MF 10% 100V	
B9	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P		C519	1-123-321-00	ELECT 220MF 20% 16V	
B10	*1-506-348-XX	3P PLUG (L)		C520	1-123-380-00	ELECT 1MF 20% 50V	
				C521	1-123-380-00	ELECT 1MF 20% 50V	
B11	*1-508-786-00	2P PLUG (M)					
B12	*1-508-765-00	3P PLUG (M)		C522	1-129-794-00	FILM 0.003MF 5% 100V	
B13	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		C523	1-106-180-00	MYLAR 0.0022MF 5% 100V	
B15	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		C524	1-108-630-91	MYLAR 0.022MF 10% 100V	
DY1	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P		C525	1-123-333-00	ELECT 100MF 20% 16V	
				C526	1-108-616-91	MYLAR 0.0015MF 10% 100V	
		CAPACITOR					
C002	1-123-380-00	ELECT 1MF 20% 50V		C527	1-102-038-00	CERAMIC 0.001MF 500V	
C003	1-123-380-00	ELECT 1MF 20% 50V		C528	1-123-356-00	ELECT 10MF 20% 25V	
C004	1-102-820-00	CERAMIC 330PF 5% 50V		C530	1-123-333-00	ELECT 100MF 20% 16V	
C005	1-136-165-00	FILM 0.1MF 5% 50V		C531	1-123-356-00	ELECT 10MF 20% 25V	
C006	1-102-959-00	CERAMIC 22PF 5% 50V		C532	1-123-356-00	ELECT 10MF 20% 25V	
C007	1-102-959-00	CERAMIC 22PF 5% 50V		C551	1-123-349-00	ELECT 1000MF 20% 35V	
C008	1-102-074-00	CERAMIC 0.001MF 10% 50V		C552	1-123-360-00	ELECT 100MF 20% 50V	
C009	1-102-978-00	CERAMIC 220PF 5% 50V		C553	1-106-192-00	MYLAR 0.0068MF 10% 100V	
C010	1-102-754-00	CERAMIC 39PF 5% 50V		C554	1-102-244-00	CERAMIC 220PF 10% 500V	
C011	1-102-756-00	CERAMIC 47PF 5% 50V		C555	1-108-630-91	MYLAR 0.022MF 10% 100V	
C012	1-102-074-00	CERAMIC 0.001MF 10% 50V		C558	1-123-336-00	ELECT 470MF 20% 25V	
C013	1-102-973-00	CERAMIC 100PF 5% 50V		C580	1-102-530-00	CERAMIC 120PF 5% 50V	
C014	1-123-380-00	ELECT 1MF 20% 50V		C590	1-102-523-00	CERAMIC 56PF 5% 50V	
C015	1-123-356-00	ELECT 10MF 20% 16V		C593	1-123-357-00	ELECT 22MF 20% 50V	
C016	1-123-356-00	ELECT 10MF 20% 16V		C601	1-130-680-61	FILM 0.1MF 20% 300V	
C018	1-123-356-00	ELECT 10MF 20% 50V		C603	1-125-222-21	ELECT(BLOCK) 330MF 20% 400V	
C019	1-123-356-00	ELECT 10MF 20% 50V		C604	1-121-919-00	ELECT 47MF 160V	
C020	1-123-332-00	ELECT 47MF 20% 16V		C605	1-102-244-00	CERAMIC 220PF 10% 500V	
C022	1-106-196-00	MYLAR 0.01MF 10% 100V		C606	1-123-381-00	ELECT 2.2MF 20% 50V	
C024	1-123-360-00	ELECT 100MF 20% 50V		C607	1-102-824-00	CERAMIC 470PF 5% 50V	
C025	1-123-356-00	ELECT 10MF 20% 16V		C608	1-108-630-91	MYLAR 0.022MF 10% 100V	
C027	1-123-332-00	ELECT 47MF 20% 16V		C609	1-102-030-00	CERAMIC 330PF 10% 500V	
C028	1-102-523-00	CERAMIC 56PF 5% 50V		C610	1-108-688-91	MYLAR 0.0047MF 10% 200V	

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C611	1-102-973-00	CERAMIC 100PF 5% 50V		C835	1-131-351-00	TANTALUM 4.7MF 10% 35V	
C612	1-121-919-00	ELECT 47MF 160V		C836	1-123-356-00	ELECT 10MF 20% 50V	
C613	1-162-116-00	CERAMIC 680PF 10% 2KV		C851	1-102-038-00	CERAMIC 0.001MF 500V	
C614	1-123-356-00	ELECT 10MF 20% 16V		C852	1-123-948-00	ELECT 22MF 20% 250V	
C615	1-106-180-00	MYLAR 0.0022MF 5% 100V		C853	1-102-223-21	CERAMIC 0.0047MF 10% 2KV	
C616	1-101-810-00	CERAMIC 100PF 5% 500V		C854	1-123-383-00	ELECT 4.7MF 20% 100V	
C619	1-101-821-00	CERAMIC 0.0022MF 500V		C855	1-123-334-00	ELECT 220MF 20% 25V	
C620	1-123-349-00	ELECT 1000MF 20% 25V		C856	1-108-425-00	MYLAR 0.022MF 10% 200V	
C621	1-101-821-00	CERAMIC 0.0022MF 500V		C857	1-106-212-00	MYLAR 0.047MF 10% 100V	
C622	1-123-325-00	ELECT 2200MF 20% 16V		C858	1-102-038-00	CERAMIC 0.001MF 500V	
C623	1-161-830-00	CERAMIC 0.0047MF 500V		C859	1-108-425-00	MYLAR 0.022MF 10% 200V	
C624	1-161-830-00	CERAMIC 0.0047MF 500V		C860	1-102-038-00	CERAMIC 0.001MF 500V	
C625	1-102-228-00	CERAMIC 470PF 10% 500V		C870	1-123-356-00	ELECT 10MF 20% 16V	
C626	1-161-830-00	CERAMIC 0.0047MF 500V		C871	1-123-332-00	ELECT 47MF 20% 25V	
C627	1-161-830-00	CERAMIC 0.0047MF 500V		C872	1-123-369-00	ELECT 4.7MF 20% 25V	
C628	1-162-116-00	CERAMIC 680PF 10% 2KV		C873	1-108-614-91	MYLAR 0.001MF 10% 100V	
C630	1-102-157-00	CERAMIC 560PF 10% 500V		C874	1-108-627-91	MYLAR 0.012MF 10% 100V	
C631	1-161-830-00	CERAMIC 0.0047MF 500V		C875	1-124-192-00	ELECT 4.7MF 20% 50V	
C632	1-108-620-91	MYLAR 0.0033MF 10% 100V		C876	1-108-616-91	MYLAR 0.0015MF 10% 100V	
C633	1-162-115-00	CERAMIC 330PF 10% 2KV					
C634	1-102-002-00	CERAMIC 680PF 10% 500V					
C644	1-108-630-91	MYLAR 0.022MF 10% 100V					
C681	1-108-837-00	MYLAR 0.01MF 10% 50V					
C682	1-106-212-00	MYLAR 0.047MF 10% 100V					
C683	1-101-003-00	CERAMIC 0.0047MF 50V					
C801	1-102-114-00	CERAMIC 470PF 10% 50V					
C802	1-123-380-00	ELECT 1MF 20% 50V					
C803	1-123-379-00	ELECT 0.47MF 20% 50V					
C804	1-102-114-00	CERAMIC 470PF 10% 50V					
C805	1-102-030-00	CERAMIC 330PF 10% 500V					
C806	1-108-614-91	MYLAR 0.001MF 10% 100V					
C807	1-106-385-00	MYLAR 0.056MF 10% 200V					
C808	1-123-024-00	ELECT 33MF 160V					
C809	1-108-435-00	MYLAR 0.15MF 10% 200V					
C810	1-136-179-00	FILM 1.5MF 5% 200V					
C811	1-162-116-51	CERAMIC 680PF 10% 2KV					
C812	1-136-089-11	FILM 0.0056MF 3% 2KV					
C813	1-161-754-11	CERAMIC 0.001MF 10% 3KV					
C814	1-106-208-00	MYLAR 0.033MF 10% 100V					
C815	1-123-382-00	ELECT 3.3MF 20% 50V					
C816	1-102-963-00	CERAMIC 33PF 10% 50V					
C817	1-136-312-51	FILM 0.043MF 5% 400V					
C818	1-136-184-00	MYLAR 0.68MF 10% 250V					
C819	1-106-367-00	MYLAR 0.01MF 10% 200V					
C820	1-136-116-00	FILM 1MF 5% 200V					
C821	1-102-820-00	CERAMIC 330PF 5% 50V					
C822	1-162-116-00	CERAMIC 680PF 10% 2KV					
C824	1-136-057-11	FILM 0.0069MF 3% 2KV					
C830	1-162-116-00	CERAMIC 680PF 10% 2KV					
C831	1-123-379-00	ELECT 0.47MF 20% 50V					
C832	1-123-379-00	ELECT 0.47MF 20% 50V					
C833	1-123-306-00	ELECT 47MF 20% 10V					
C834	1-123-357-00	ELECT 22MF 20% 50V					

FILTER

DIODE

CF001	1-567-192-11	OSCILLATOR, CERAMIC		D001	8-719-911-19	DIODE 1SS119	
				D003	8-719-911-19	DIODE 1SS119	
				D004	8-719-911-19	DIODE 1SS119	
				D005	8-719-911-19	DIODE 1SS119	
				D006	8-719-911-19	DIODE 1SS119	
				D007	8-719-911-19	DIODE 1SS119	
				D009	8-719-102-30	DIODE RD33E-L2	
				D011	8-719-911-19	DIODE 1SS119	
				D015	8-719-109-89	DIODE RD5.6ES-B2	
				D016	8-719-911-19	DIODE 1SS119	
				D017	8-719-911-19	DIODE 1SS119	
				D018	8-719-101-41	DIODE RD3.9E-L2	
				D020	8-719-911-19	DIODE 1SS119	
				D021	8-719-911-19	DIODE 1SS119	
				D022	8-719-911-19	DIODE 1SS119	
				D501	8-719-911-19	DIODE 1SS119	
				D502	8-719-911-19	DIODE 1SS119	
				D503	8-719-911-19	DIODE 1SS119	
				D504	8-719-911-19	DIODE 1SS119	
				D505	8-719-911-19	DIODE 1SS119	
				D506	8-719-911-19	DIODE 1SS119	
				D551	8-719-911-55	DIODE U05G	
				D601	8-719-503-06	DIODE S3WB60Z	
				D603	8-719-924-06	DIODE ERC24-06S	
				D604	8-719-911-55	DIODE U05G	
				D605	8-719-924-06	DIODE ERC24-06S	
				D606	8-719-101-58	DIODE RD5.6E-L2	
				D608	8-719-924-06	DIODE ERC24-06S	
				D609	8-719-911-55	DIODE U05G	

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

B

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
D611	8-719-911-19	DIODE 1SS119		L851	1-408-163-00	MICRO INDUCTOR 5.6MMH	
D613	8-719-911-19	DIODE 1SS119		L852	1-459-442-11	COIL (WITH CORE)	
D681	8-719-101-50	DIODE RD5.1E-L2		L853	1-421-013-00	COIL, (HORIZONTAL CHOKE) 25UH	
D801	8-719-305-15	DIODE GH3F		L854	1-459-406-00	COIL (WITH CORE)	
D802	8-719-928-08	DIODE ERD28-08S		L871	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE	
D803	8-719-100-35	DIODE RD5.6E-B2		TRANSISTOR			
D804	8-719-190-00	DIODE RD24E-BZ7		Q003	8-729-900-63	TRANSISTOR DTA124ES	
D805	8-719-911-19	DIODE 1SS119		Q004	8-729-603-50	TRANSISTOR 2SC403SP	
D811	8-719-911-19	DIODE 1SS119		Q005	8-729-178-54	TRANSISTOR 2SC2785	
D851	8-719-924-06	DIODE ERC24-06S		Q006	8-729-117-54	TRANSISTOR 2SA1175	
D852	8-719-300-65	DIODE ES1F		Q007	8-729-178-54	TRANSISTOR 2SC2785	
D853	8-719-924-06	DIODE ERC24-06S		Q008	8-729-117-54	TRANSISTOR 2SA1175	
D854	8-719-924-06	DIODE ERC24-06S		Q009	8-729-177-43	TRANSISTOR 2SD774	
D855	8-719-911-55	DIODE U05G		Q010	8-729-117-54	TRANSISTOR 2SA1175	
D856	8-719-911-55	DIODE U05G		Q011	8-729-900-36	TRANSISTOR DTC124ES	
D857	8-719-911-55	DIODE U05G		Q012	8-729-117-54	TRANSISTOR 2SA1175	
FUSE				Q013	8-729-178-54	TRANSISTOR 2SC2785	
F601	1-532-350-11	FUSE, TIME-LAG 4A/250V		Q015	8-729-178-54	TRANSISTOR 2SC2785	
	1-533-087-00	HOLDER, FUSE; F601		Q501	8-729-178-54	TRANSISTOR 2SC2785	
F602	1-532-203-11	FUSE, TIME-LAG 2A/250V		Q502	8-729-178-54	TRANSISTOR 2SC2785	
	1-533-087-00	HOLDER, FUSE; F602		Q503	8-729-178-54	TRANSISTOR 2SC2785	
IC				Q504	8-729-178-54	TRANSISTOR 2SC2785	
IC001	8-759-603-96	IC M50436-515SP		Q505	8-729-178-54	TRANSISTOR 2SC2785	
IC002	8-759-603-41	IC M58655P		Q506	8-729-178-54	TRANSISTOR 2SC2785	
IC003	8-759-157-40	IC UPC574J		Q507	8-729-178-54	TRANSISTOR 2SC2785	
IC501	8-759-100-60	IC UPC1377C		Q508	8-729-900-36	TRANSISTOR DTC124ES	
IC502	8-759-909-70	IC CX23025		Q513	8-729-178-54	TRANSISTOR 2SC2785	
IC551	8-759-113-78	IC UPC1378H-L		Q514	8-729-900-36	TRANSISTOR DTC124ES	
IC601	8-759-100-75	IC UPC1394C		Q601	8-729-304-94	TRANSISTOR 2SC3679-OF	
IC851	8-759-700-06	IC NJM7812B		Q602	8-729-195-82	TRANSISTOR 2SC2958	
IC871	8-759-145-58	IC UPC4558C		Q603	8-729-163-93	TRANSISTOR 2SA639S	
COIL				Q604	8-729-178-54	TRANSISTOR 2SC2785	
L001	1-404-538-21	COIL		Q609	8-729-117-54	TRANSISTOR 2SA1175	
L002	1-408-409-00	MICRO INDUCTOR 10UH		Q681	8-729-178-54	TRANSISTOR 2SC2785	
L003	1-408-409-00	MICRO INDUCTOR 10UH		Q682	8-729-101-31	TRANSISTOR N13T1	
L501	1-407-556-00	CHOKE COIL		Q801	8-729-168-82	TRANSISTOR 2SC2688	
L601	1-408-300-00	MICRO INDUCTOR 6.8UH		Q802	8-729-800-87	TRANSISTOR 2SD1398	
L602	1-407-365-00	COIL, CHOKE		Q803	8-729-178-54	TRANSISTOR 2SC2785	
L604	1-421-013-00	COIL, (HORIZONTAL CHOKE) 25UH		Q804	8-729-178-54	TRANSISTOR 2SC2785	
L606	1-407-556-00	CHOKE COIL		Q805	8-729-178-54	TRANSISTOR 2SC2785	
L610	1-407-841-00	COIL 15UH		Q806	8-729-117-54	TRANSISTOR 2SA1175	
L611	1-407-841-00	COIL 15UH		Q807	8-729-178-54	TRANSISTOR 2SC2785	
L801	1-408-225-00	MICRO INDUCTOR 3.3UH		Q808	8-729-178-54	TRANSISTOR 2SC2785	
L802	1-407-365-00	COIL, CHOKE		Q809	8-729-309-08	TRANSISTOR 2SC1890A	
L803	1-459-104-11	COIL, DUST CORE		Q810	8-729-117-54	TRANSISTOR 2SA1175	
L804	1-408-239-00	MICRO INDUCTOR 4.7MMH		Q812	8-729-900-36	TRANSISTOR DTC124ES	
L805	1-459-241-11	COIL, HORIZONTAL LINIALITY		Q871	8-729-313-42	TRANSISTOR 2SD1134	
RESISTOR				R009	1-247-823-00	CARBON 470 5% 1/6W	
L806	1-459-390-11	COIL (WITH CORE)		R010	1-249-425-11	CARBON 4.7K 5% 1/6W	
L807	1-407-365-00	COIL, CHOKE		R011	1-249-425-11	CARBON 4.7K 5% 1/6W	
L810	1-459-232-11	COIL, CORE					


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
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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R013	1-249-417-11	CARBON	1K 5% 1/6W	R076	1-247-823-00	CARBON	470 5% 1/6W
R014	1-249-432-11	CARBON	18K 5% 1/6W	R077	1-249-441-11	CARBON	100K 5% 1/6W
R015	1-247-859-00	CARBON	15K 5% 1/6W	R078	1-249-437-11	CARBON	47K 5% 1/6W
R016	1-249-433-11	CARBON	22K 5% 1/6W	R079	1-249-465-11	CARBON	47K 5% 1/4W
R017	1-249-434-11	CARBON	27K 5% 1/6W	R080	1-249-425-11	CARBON	4.7K 5% 1/6W
R018	1-249-433-11	CARBON	22K 5% 1/6W	R081	1-249-437-11	CARBON	47K 5% 1/6W
R019	1-247-869-00	CARBON	39K 5% 1/6W	R082	1-247-700-11	CARBON	100 5% 1/4W
R021	1-247-163-00	CARBON	22K 5% 1/4W	R083	1-249-425-11	CARBON	4.7K 5% 1/6W
R022	1-249-433-11	CARBON	22K 5% 1/6W	R084	1-247-873-00	CARBON	56K 5% 1/6W
R023	1-249-429-11	CARBON	10K 5% 1/6W	R085	1-247-859-00	CARBON	15K 5% 1/6W
R024	1-249-433-11	CARBON	22K 5% 1/6W	R086	1-249-429-11	CARBON	10K 5% 1/6W
R025	1-249-433-11	CARBON	22K 5% 1/6W	R087	1-249-429-11	CARBON	10K 5% 1/6W
R026	1-247-823-00	CARBON	470 5% 1/6W	R089	1-249-429-11	CARBON	10K 5% 1/6W
R027	1-247-823-00	CARBON	470 5% 1/6W	R090	1-249-415-11	CARBON	680 5% 1/6W
R028	1-247-823-00	CARBON	470 5% 1/6W	R091	1-247-823-00	CARBON	470 5% 1/6W
R029	1-247-823-00	CARBON	470 5% 1/6W	R092	1-249-429-11	CARBON	10K 5% 1/6W
R030	1-247-823-00	CARBON	470 5% 1/6W	R093	1-247-823-00	CARBON	470 5% 1/6W
R031	1-247-823-00	CARBON	470 5% 1/6W	R095	1-249-429-11	CARBON	10K 5% 1/6W
R032	1-247-823-00	CARBON	470 5% 1/6W	R097	1-249-440-11	CARBON	82K 5% 1/6W
R033	1-247-725-11	CARBON	10K 5% 1/4W	R098	1-249-425-11	CARBON	4.7K 5% 1/6W
R035	1-247-903-00	CARBON	1M 5% 1/6W	R500	1-247-713-11	CARBON	1K 5% 1/4W
R036	1-249-441-11	CARBON	100K 5% 1/6W	R501	1-249-405-11	CARBON	100 5% 1/6W
R037	1-247-823-00	CARBON	470 5% 1/6W	R502	1-249-405-11	CARBON	100 5% 1/6W
R038	1-247-823-00	CARBON	470 5% 1/6W	R503	1-247-823-00	CARBON	470 5% 1/6W
R039	1-249-429-11	CARBON	10K 5% 1/6W	R504	1-247-815-00	CARBON	220 5% 1/6W
R040	1-249-429-11	CARBON	10K 5% 1/6W	R505	1-247-817-00	CARBON	270 5% 1/6W
R041	1-247-823-00	CARBON	470 5% 1/6W	R506	1-249-393-11	CARBON	10 5% 1/6W F
R043	1-247-823-00	CARBON	470 5% 1/6W	R507	1-249-413-11	CARBON	470 5% 1/6W F
R045	1-247-823-00	CARBON	470 5% 1/6W	R508	1-249-422-11	CARBON	2.7K 5% 1/6W
R046	1-247-823-00	CARBON	470 5% 1/6W	R509	1-247-845-00	CARBON	3.9K 5% 1/6W
R047	1-249-429-11	CARBON	10K 5% 1/6W	R510	1-249-435-11	CARBON	33K 5% 1/6W
R048	1-247-823-00	CARBON	470 5% 1/6W	R511	1-215-461-00	METAL	47K 1% 1/6W
R049	1-247-875-00	CARBON	68K 5% 1/6W	R512	1-249-417-11	CARBON	1K 5% 1/6W
R050	1-249-421-11	CARBON	2.2K 5% 1/6W F	R513	1-215-475-00	METAL	180K 1% 1/6W
R051	1-247-853-00	CARBON	8.2K 5% 1/6W	R514	1-215-455-00	METAL	27K 1% 1/6W
R052	1-206-696-00	METAL OXIDE	22K 5% 2W F	R515	1-249-429-11	CARBON	10K 5% 1/6W
R053	1-247-819-00	CARBON	330 5% 1/6W	R516	1-215-463-00	METAL	56K 1% 1/6W
R054	1-249-377-11	CARBON	0.47 5% 1/6W F	R517	1-249-429-11	CARBON	10K 5% 1/6W
R055	1-249-417-11	CARBON	1K 5% 1/6W	R518	1-247-849-00	CARBON	5.6K 5% 1/6W
R056	1-249-417-11	CARBON	1K 5% 1/6W	R519	1-249-415-11	CARBON	680 5% 1/6W
R057	1-249-429-11	CARBON	10K 5% 1/6W	R520	1-249-414-11	CARBON	560 5% 1/6W
R059	1-249-433-11	CARBON	22K 5% 1/6W	R521	1-247-857-00	CARBON	12K 5% 1/6W
R061	1-249-429-11	CARBON	10K 5% 1/6W	R522	1-247-815-00	CARBON	220 5% 1/6W
R062	1-247-851-00	CARBON	6.8K 5% 1/6W	R523	1-247-820-00	CARBON	360 5% 1/6W
R063	1-247-853-00	CARBON	8.2K 5% 1/6W	R524	1-215-460-00	METAL	43K 1% 1/6W
R064	1-249-405-11	CARBON	100 5% 1/6W	R525	1-249-427-11	CARBON	6.8K 5% 1/6W F
R065	1-247-823-00	CARBON	470 5% 1/6W	R526	1-249-393-11	CARBON	10 5% 1/6W F
R066	1-247-819-00	CARBON	330 5% 1/6W	R527	1-247-711-11	CARBON	680 5% 1/4W F
R067	1-247-851-00	CARBON	6.8K 5% 1/6W	R528	1-206-694-00	METAL OXIDE	18K 5% 2W F
R068	1-247-721-11	CARBON	4.7K 5% 1/4W	R529	1-249-423-11	CARBON	3.3K 5% 1/6W
R071	1-247-900-00	CARBON	750K 5% 1/6W	R530	1-249-440-11	CARBON	82K 5% 1/6W
R072	1-249-437-11	CARBON	47K 5% 1/6W	R531	1-249-440-11	CARBON	82K 5% 1/6W
R075	1-249-429-11	CARBON	10K 5% 1/6W	R532	1-247-857-00	CARBON	12K 5% 1/6W

B

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R533	1-249-435-11	CARBON	33K 5% 1/6W	R623	1-247-891-00	CARBON	330K 5% 1/6W
R534	1-247-859-00	CARBON	15K 5% 1/6W	R624	1-215-453-00	METAL	22K 1% 1/6W
R551	1-249-425-11	CARBON	4.7K 5% 1/6W	R625	1-215-453-00	METAL	22K 1% 1/6W
R552	1-213-139-00	METAL OXIDE	470 5% 1W F	R626	1-247-708-11	CARBON	470 5% 1/4W
R555	1-214-681-00	METAL	10 1% 1/4W	R627	1-247-887-00	CARBON	220K 5% 1/6W
R556	1-247-226-00	CARBON	270 5% 1/2W	R628	1-247-873-00	CARBON	56K 5% 1/6W
R557	1-212-363-00	METAL OXIDE	1.8 5% 1W F	R629	1-247-903-00	CARBON	1M 5% 1/6W
R558	1-247-769-00	CARBON	2.7 5% 1/6W	R630	1-205-758-11	CEMENTED	100 10% 10W F
R561	1-246-525-00	CARBON	150K 5% 1/4W	R631	1-205-758-11	CEMENTED	100 10% 10W F
R562	1-249-441-11	CARBON	100K 5% 1/6W	R632	1-247-887-00	CARBON	220K 5% 1/6W
R563	1-247-903-00	CARBON	1M 5% 1/6W	R633	1-249-437-11	CARBON	47K 5% 1/6W
R570	1-249-437-11	CARBON	47K 5% 1/6W	R634	1-247-878-00	CARBON	91K 5% 1/6W
R571	1-249-437-11	CARBON	47K 5% 1/6W	R635	1-249-443-11	CARBON	0.47 5% 1/4W F
R572	1-249-437-11	CARBON	47K 5% 1/6W	R636	1-249-443-11	CARBON	0.47 5% 1/4W F
R573	1-249-437-11	CARBON	47K 5% 1/6W	R637	1-249-413-11	CARBON	470 5% 1/6W F
R574	1-249-437-11	CARBON	47K 5% 1/6W	R640	1-206-644-00	METAL OXIDE	150 5% 2W F
R575	1-249-433-11	CARBON	22K 5% 1/6W	R642	1-249-429-11	CARBON	10K 5% 1/6W
R576	1-249-419-11	CARBON	1.5K 5% 1/6W	R645	1-244-927-00	CARBON	180K 5% 1/2W
R577	1-249-437-11	CARBON	47K 5% 1/6W	R646	1-249-411-11	CARBON	330 5% 1/6W F
R578	1-249-437-11	CARBON	47K 5% 1/6W	R653	1-247-823-00	CARBON	470 5% 1/6W
R579	1-249-437-11	CARBON	47K 5% 1/6W	R654	1-247-799-00	CARBON	47 5% 1/6W
R580	1-249-419-11	CARBON	1.5K 5% 1/6W	R655	1-244-929-00	CARBON	220K 5% 1/2W
R581	1-249-437-11	CARBON	47K 5% 1/6W	R656	1-249-421-11	CARBON	2.2K 5% 1/6W
R582	1-249-419-11	CARBON	1.5K 5% 1/6W	R660	1-215-899-51	METAL OXIDE	15K 5% 2W F
R583	1-249-437-11	CARBON	47K 5% 1/6W	R661	1-247-895-00	CARBON	470K 5% 1/6W
R584	1-247-887-00	CARBON	220K 5% 1/6W	R671	1-244-927-00	CARBON	180K 5% 1/2W
R585	1-247-853-00	CARBON	8.2K 5% 1/6W	R672	1-244-927-00	CARBON	180K 5% 1/2W
R586	1-247-845-00	CARBON	3.9K 5% 1/6W	R674	1-247-859-00	CARBON	15K 5% 1/6W
R587	1-249-437-11	CARBON	47K 5% 1/6W	R675	1-247-801-00	CARBON	56 5% 1/6W
R588	1-249-422-11	CARBON	2.7K 5% 1/6W	R681	1-215-471-00	METAL	120K 1% 1/6W
R590	1-247-881-00	CARBON	120K 5% 1/6W	R682	1-215-437-00	METAL	4.7K 1% 1/6W
R592	1-249-433-11	CARBON	22K 5% 1/6W	R683	1-249-441-11	CARBON	100K 5% 1/6W
R593	1-249-426-11	CARBON	5.6K 5% 1/6W F	R684	1-249-425-11	CARBON	4.7K 5% 1/6W
R596	1-249-433-11	CARBON	22K 5% 1/6W	R685	1-249-433-11	CARBON	22K 5% 1/6W
R601	1-214-777-00	METAL	100K 1% 1/4W	R686	1-249-417-11	CARBON	1K 5% 1/6W
R602	1-247-829-00	CARBON	820 5% 1/6W	R687	1-247-809-00	METAL	120 5% 1/6W
R603	1-215-431-00	METAL	2.7K 1% 1/6W	R801	1-247-809-00	CARBON	120 5% 1/6W
R604	1-202-735-00	SOLID	22M 10% 1/2W	R802	1-249-437-11	CARBON	47K 5% 1/6W
R605	1-216-514-51	METAL OXIDE	39K 5% 5W F	R803	1-249-421-11	CARBON	2.2K 5% 1/6W
R606	1-205-790-11	CEMENTED	5.6 5% 20W	R804	1-249-425-11	CARBON	4.7K 5% 1/6W
R608	1-249-434-11	CARBON	27K 5% 1/6W	R805	1-249-420-11	CARBON	1.8K 5% 1/6W F
R609	1-249-429-11	CARBON	10K 5% 1/6W	R806	1-205-642-00	CEMENTED	3.3K 10% 5W
R610	1-249-425-11	CARBON	4.7K 5% 1/6W	R807	1-249-393-11	CARBON	10 5% 1/6W F
R611	1-249-416-11	CARBON	820 5% 1/6W F	R808	1-249-405-11	CARBON	100 5% 1/6W
R612	1-249-414-11	CARBON	560 5% 1/6W	R809	1-213-147-00	METAL OXIDE	2.2K 5% 1W F
R613	1-247-889-00	CARBON	270K 5% 1/6W	R810	1-212-371-00	METAL OXIDE	8.2 5% 1W F
R614	1-247-851-00	CARBON	6.8K 5% 1/6W	R811	1-213-129-00	METAL OXIDE	68 5% 1W F
R616	1-217-194-00	WIREWOUND	0.33 10% 2W F	R812	1-249-428-11	CARBON	8.2K 5% 1/6W F
R617	1-249-417-11	CARBON	1K 5% 1/6W F	R814	1-249-429-11	CARBON	10K 5% 1/6W
R618	1-247-805-00	CARBON	82 5% 1/6W	R815	1-247-829-00	CARBON	820 5% 1/6W
R619	1-205-687-00	CEMENTED	54K 10% 7W	R816	1-249-414-11	CARBON	560 5% 1/6W
R620	1-206-690-00	METAL OXIDE	12K 5% 2W F	R817	1-249-405-11	CARBON	100 5% 1/6W
R622	1-247-866-00	CARBON	30K 5% 1/6W	R820	1-249-469-11	CARBON	100K 5% 1/4W

• The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

B

A

T601 A.1-421-582-11 TRANSFORMER, FERRITE
T602 1-446-194-00 TRANSFORMER, CHOPPER DRIVE

- The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

A

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C217	1-102-513-00	CERAMIC	18PF 5% 50V	C323	1-101-004-00	CERAMIC	0.01MF 50V
C218	1-123-356-00	ELECT	10MF 20% 50V	C324	1-102-978-00	CERAMIC	220PF 5% 50V
C219	1-108-841-91	MYLAR	0.022MF 10% 50V	C327	1-108-620-91	MYLAR	0.0033MF 10% 100V
C220	1-123-021-00	ELECT	0.47MF 30% 50V	C328	1-123-356-00	ELECT	10MF 20% 16V
C221	1-161-059-00	CERAMIC	0.047MF 10% 25V	C329	1-123-381-00	ELECT	2.2MF 20% 50V
C222	1-161-059-00	CERAMIC	0.047MF 10% 25V	C331	1-101-004-00	CERAMIC	0.01MF 50V
C223	1-161-059-00	CERAMIC	0.047MF 10% 25V	C333	1-101-005-00	CERAMIC	0.022MF 50V
C224	1-161-059-00	CERAMIC	0.047MF 10% 25V	C336	1-123-447-00	ELECT	0.22MF 50V
C225	1-123-318-00	ELECT	33MF 20% 16V	C337	1-108-587-00	MYLAR	0.022MF 5% 50V
C226	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C338	1-108-587-00	MYLAR	0.022MF 5% 50V
C228	1-123-332-00	ELECT	47MF 20% 16V	C340	1-123-356-00	ELECT	10MF 20% 16V
C230	1-102-851-00	CERAMIC	15PF 5% 50V	C341	1-101-004-00	CERAMIC	0.01MF 50V
C231	1-123-356-00	ELECT	10MF 20% 50V	C344	1-123-380-00	ELECT	1MF 20% 50V
C232	1-102-514-00	CERAMIC	22PF 5% 50V	C345	1-102-820-00	CERAMIC	330PF 5% 50V
C233	1-102-524-00	CERAMIC	62PF 5% 50V	C346	1-102-980-00	CERAMIC	270PF 5% 50V
C234	1-161-013-00	CERAMIC	0.01MF 10% 25V	C347	1-101-004-00	CERAMIC	0.01MF 50V
C235	1-123-379-00	ELECT	0.47MF 20% 50V	C349	1-123-380-00	ELECT	1MF 20% 50V
C236	1-123-381-00	ELECT	2.2MF 20% 50V	C351	1-101-004-00	CERAMIC	0.01MF 50V
C237	1-123-333-00	ELECT	100MF 20% 16V	C357	1-101-003-00	CERAMIC	0.0047MF 50V
C238	1-102-944-00	CERAMIC	7PF 1PF 50V	C361	1-123-447-00	ELECT	0.22MF 20% 50V
C240	1-102-851-00	CERAMIC	15PF 5% 50V	C362	1-123-447-00	ELECT	0.22MF 20% 50V
C254	1-102-074-00	CERAMIC	0.001MF 10% 50V	C363	1-123-447-00	ELECT	0.22MF 20% 50V
C255	1-102-824-00	CERAMIC	470PF 10% 50V	C374	1-102-525-00	CERAMIC	68PF 5% 50V
C264	1-102-074-00	CERAMIC	0.001MF 10% 50V	C375	1-102-525-00	CERAMIC	68PF 5% 50V
C265	1-102-822-00	CERAMIC	390PF 5% 50V	C376	1-102-525-00	CERAMIC	68PF 5% 50V
C271	1-101-004-00	CERAMIC	0.01MF 50V	C377	1-102-514-00	CERAMIC	22PF 5% 50V
C274	1-102-074-00	CERAMIC	0.001MF 10% 50V	C379	1-123-380-00	ELECT	1MF 20% 50V
C275	1-102-824-00	CERAMIC	470PF 10% 50V	C380	1-102-523-00	CERAMIC	56PF 5% 50V
C276	1-123-356-00	ELECT	10MF 20% 16V	C382	1-123-380-00	ELECT	1MF 20% 50V
C280	1-102-527-00	CERAMIC	82PF 5% 50V	C383	1-123-382-00	ELECT	3.3MF 20% 50V
C282	1-123-333-00	ELECT	100MF 20% 16V	C386	1-123-334-00	ELECT	220MF 20% 25V
C284	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C387	1-123-369-00	ELECT	4.7MF 20% 25V
C285	1-123-321-00	ELECT	220MF 20% 16V	C388	1-123-586-00	ELECT	0.1MF 20% 50V
C286	1-123-333-00	ELECT	100MF 20% 16V	C389	1-123-586-00	ELECT	0.1MF 20% 50V
C287	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C391	1-123-381-00	ELECT	2.2MF 20% 50V
C288	1-123-333-00	ELECT	100MF 20% 16V	C394	1-161-059-00	CERAMIC	0.047MF 10% 25V
C289	1-123-324-00	ELECT	1000MF 20% 16V	C395	1-123-333-00	ELECT	100MF 20% 16V
C290	1-161-059-00	CERAMIC	0.047MF 10% 25V	C396	1-161-059-00	CERAMIC	0.047MF 10% 25V
C291	1-123-381-00	ELECT	2.2MF 20% 50V	C397	1-123-334-00	ELECT	220MF 20% 25V
C292	1-102-119-00	CERAMIC	0.0015MF 10% 50V	C398	1-161-059-00	CERAMIC	0.047MF 10% 25V
C293	1-106-220-00	MYLAR	0.1MF 10% 100V	C399	1-123-333-00	ELECT	100MF 20% 16V
C294	1-123-332-00	ELECT	47MF 20% 16V	C402	1-102-508-00	CERAMIC	10PF 0.5PF 50V
C295	1-123-323-00	ELECT	470MF 20% 16V	DISCRIMINATOR			
C296	1-123-381-00	ELECT	2.2MF 20% 50V	CD221	1-404-469-00	DISCRIMINATOR, CERAMIC	4.5MHZ
C297	1-123-332-00	ELECT	47MF 20% 16V	CD222	1-404-473-00	DISCRIMINATOR, CERAMIC	
C298	1-101-361-00	CERAMIC	150PF 5% 50V	CD223	1-404-490-00	DISCRIMINATOR, CERAMIC	(6.0MHZ)
C301	1-123-356-00	ELECT	10MF 20% 16V	FILTER			
C302	1-102-530-00	CERAMIC	120PF 5% 50V	CF254	1-527-943-00	FILTER, CERAMIC	
C303	1-102-527-00	CERAMIC	82PF 5% 50V	CF264	1-567-099-00	FILTER, CERAMIC	
C310	1-123-379-00	ELECT	0.47MF 20% 50V	CF274	1-527-262-00	CERAMIC FILTER	(6.0MHZ)
C317	1-123-356-00	ELECT	10MF 20% 25V	CF307	1-409-344-00	CERAMIC TRAP	3.58MHZ
C320	1-123-356-00	ELECT	10MF 20% 16V				
C321	1-102-527-00	CERAMIC	82PF 5% 50V				




Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
CT252	1-409-332-00	CERAMIC TRAP (4.5MHZ)		L208	1-408-397-00	MICRO INDUCTOR 1UH	
CT262	1-404-134-00	TRAP, CERAMIC (5.5MHZ)		L210	1-408-401-00	MICRO INDUCTOR 2.2UH	
CT272	1-409-333-00	TRAP, CERAMIC (6.0MHZ)		L220	1-408-418-00	MICRO INDUCTOR 56UH	
SWF201	1-404-701-11	SAWF		L221	1-408-414-00	MICRO INDUCTOR 27UH	
				L222	1-408-413-00	MICRO INDUCTOR 22UH	
		<u>TRIMMER</u>		L223	1-408-413-00	MICRO INDUCTOR 22UH	
CV341	1-141-181-11	CAP, TRIMMER		L252	1-408-411-00	MICRO INDUCTOR 15UH	
CV351	1-141-181-11	CAP, TRIMMER		L255	1-408-402-00	MICRO INDUCTOR 2.7UH	
		<u>DIODE</u>		L262	1-408-411-00	MICRO INDUCTOR 15UH	
D102	8-719-101-37	DIODE RD3.3E-L2		L265	1-408-401-00	MICRO INDUCTOR 2.2UH	
D103	8-719-911-19	DIODE 1S1119		L272	1-408-411-00	MICRO INDUCTOR 15UH	
D200	8-719-911-19	DIODE 1S1119		L275	1-408-399-00	MICRO INDUCTOR 1.5UH	
D224	8-719-911-19	DIODE 1S1119		L287	1-407-693-00	MICRO INDUCTOR 10UH	
D225	8-719-911-19	DIODE 1S1119		L292	1-407-698-00	MICRO INDUCTOR 27UH	
				L297	1-408-408-00	MICRO INDUCTOR 8.2UH	
D237	8-719-911-19	DIODE 1S1119		L303	1-408-414-00	MICRO INDUCTOR 27UH	
D257	8-719-815-55	DIODE 1S1555		L307	1-408-416-00	MICRO INDUCTOR 39UH	
D267	8-719-815-55	DIODE 1S1555		L321	1-408-416-00	MICRO INDUCTOR 39UH	
D277	8-719-815-55	DIODE 1S1555		L334	1-408-409-00	MICRO INDUCTOR 10UH	
D291	8-719-911-19	DIODE 1S1119		L345	1-407-507-00	MICRO INDUCTOR 18MMH	
				L374	1-408-409-00	MICRO INDUCTOR 10UH	
D292	8-719-911-19	DIODE 1S1119		L375	1-408-409-00	MICRO INDUCTOR 10UH	
D308	8-719-911-19	DIODE 1S1119		L376	1-408-409-00	MICRO INDUCTOR 10UH	
D311	8-719-815-55	DIODE 1S1555		L377	1-408-416-00	MICRO INDUCTOR 39UH	
D312	8-719-815-55	DIODE 1S1555		L402	1-408-418-00	MICRO INDUCTOR 56UH	
D326	8-719-911-19	DIODE 1S1119		L403	1-408-422-00	MICRO INDUCTOR 120UH	
					<u>TRANSISTOR</u>		
D327	8-719-911-19	DIODE 1S1119		Q106	8-729-178-54	TRANSISTOR 2SC2785	
D328	8-719-911-19	DIODE 1S1119		Q108	8-729-117-54	TRANSISTOR 2SA1175	
D344	8-719-815-55	DIODE 1S1555		Q109	8-729-117-54	TRANSISTOR 2SA1175	
D349	8-719-911-19	DIODE 1S1119		Q110	8-729-117-54	TRANSISTOR 2SA1175	
D374	8-719-815-55	DIODE 1S1555		Q201	8-729-105-47	TRANSISTOR 2SC2026-L	
				Q202	8-729-178-54	TRANSISTOR 2SC2785	
D375	8-719-815-55	DIODE 1S1555		Q203	8-729-178-54	TRANSISTOR 2SC2785	
D376	8-719-815-55	DIODE 1S1555		Q205	8-729-178-54	TRANSISTOR 2SC2785	
D401	8-719-911-19	DIODE 1S1119		Q221	8-729-900-89	TRANSISTOR DTC144ES	
D402	8-719-815-55	DIODE 1S1555		Q222	8-729-900-89	TRANSISTOR DTC144ES	
D403	8-719-911-19	DIODE 1S1119		Q223	8-729-900-89	TRANSISTOR DTC144ES	
D404	8-719-911-19	DIODE 1S1119		Q224	8-729-900-89	TRANSISTOR DTC144ES	
		<u>DELAY LINE</u>		Q225	8-729-178-54	TRANSISTOR 2SC2785	
DL301	1-415-122-31	DELAY LINE, 1H (PAL)		Q236	8-729-378-84	TRANSISTOR 2SD788	
		<u>IC</u>		Q242	8-729-117-54	TRANSISTOR 2SA1175	
IC201	8-752-001-51	IC CX20015A		Q252	8-729-178-54	TRANSISTOR 2SC2785	
IC202	8-759-140-66	IC UPD4066BC		Q255	8-729-115-30	TRANSISTOR 2SK105A-30	
IC203	8-752-006-10	IC CX20061		Q262	8-729-178-54	TRANSISTOR 2SC2785	
IC204	8-759-101-77	IC UPC1241H		Q265	8-729-115-30	TRANSISTOR 2SK105A-30	
IC301	8-752-030-86	IC CXA1001AP		Q272	8-729-178-54	TRANSISTOR 2SC2785	
IC302	8-759-913-11	IC CX20125		Q275	8-729-115-30	TRANSISTOR 2SK105A-30	
		<u>COIL</u>		Q282	8-729-178-54	TRANSISTOR 2SC2785	
L200	1-408-401-00	MICRO INDUCTOR 2.2UH		Q284	8-729-178-54	TRANSISTOR 2SC2785	
L203	1-409-372-00	COIL, TRAP		Q285	8-729-900-89	TRANSISTOR DTC144ES	
L205	1-409-372-00	COIL, TRAP		Q286	8-729-900-89	TRANSISTOR DTC144ES	

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
Q287	8-729-178-54	TRANSISTOR 2SC2785		R217	1-249-422-11	CARBON 2.7K 5%	1/6W
Q290	8-729-178-54	TRANSISTOR 2SC2785		R218	1-249-417-11	CARBON 1K 5%	1/6W
Q301	8-729-178-54	TRANSISTOR 2SC2785		R219	1-249-421-11	CARBON 2.2K 5%	1/6W
Q302	8-729-178-54	TRANSISTOR 2SC2785		R220	1-247-706-11	CARBON 330 5%	1/4W
Q303	8-729-900-89	TRANSISTOR DTC144ES		R221	1-249-417-11	CARBON 1K 5%	1/6W
Q304	8-729-178-54	TRANSISTOR 2SC2785		R222	1-247-828-00	CARBON 750 5%	1/6W
Q305	8-729-178-54	TRANSISTOR 2SC2785		R223	1-249-417-11	CARBON 1K 5%	1/6W
Q306	8-729-178-54	TRANSISTOR 2SC2785		R224	1-247-881-00	CARBON 120K 5%	1/6W
Q307	8-729-900-89	TRANSISTOR DTC144ES		R225	1-247-881-00	CARBON 120K 5%	1/6W
Q308	8-729-178-54	TRANSISTOR 2SC2785		R226	1-247-881-00	CARBON 120K 5%	1/6W
Q310	8-729-178-54	TRANSISTOR 2SC2785		R227	1-249-425-11	CARBON 4.7K 5%	1/6W
Q311	8-729-117-54	TRANSISTOR 2SA1175		R228	1-249-433-11	CARBON 22K 5%	1/6W
Q312	8-729-900-36	TRANSISTOR DTC124ES		R230	1-247-771-00	CARBON 3.3 5%	1/6W
Q314	8-729-115-30	TRANSISTOR 2SK105A-30		R231	1-249-433-11	CARBON 22K 5%	1/6W
Q315	8-729-105-73	TRANSISTOR 2SK523-L2		R232	1-249-429-11	CARBON 10K 5%	1/6W
Q320	8-729-178-54	TRANSISTOR 2SC2785		R233	1-247-845-00	CARBON 3.9K 5%	1/6W
Q321	8-729-178-54	TRANSISTOR 2SC2785		R234	1-249-441-11	CARBON 100K 5%	1/6W
Q374	8-729-117-54	TRANSISTOR 2SA1175		R235	1-247-815-00	CARBON 220 5%	1/6W
Q375	8-729-117-54	TRANSISTOR 2SA1175		R236	1-247-833-00	CARBON 1.2K 5%	1/6W
Q376	8-729-117-54	TRANSISTOR 2SA1175		R237	1-247-851-00	CARBON 6.8K 5%	1/6W
Q401	8-729-178-54	TRANSISTOR 2SC2785		R238	1-247-851-00	CARBON 6.8K 5%	1/6W
Q402	8-729-178-54	TRANSISTOR 2SC2785		R239	1-249-433-11	CARBON 22K 5%	1/6W
Q403	8-729-117-54	TRANSISTOR 2SA1175		R240	1-249-433-11	CARBON 22K 5%	1/6W
Q404	8-729-117-54	TRANSISTOR 2SA1175		R241	1-247-811-00	CARBON 150 5%	1/6W
Q405	8-729-178-54	TRANSISTOR 2SC2785		R242	1-247-821-00	CARBON 390 5%	1/6W
Q406	8-729-900-89	TRANSISTOR DTC144ES		R244	1-247-819-00	CARBON 330 5%	1/6W
<u>RESISTOR</u>				R245	1-249-437-11	CARBON 47K 5%	1/6W
R101	1-249-435-11	CARBON 33K 5%	1/6W	R247	1-247-849-00	CARBON 5.6K 5%	1/6W
R102	1-249-423-11	CARBON 3.3K 5%	1/6W	R250	1-247-829-00	CARBON 820 5%	1/6W
R103	1-249-425-11	CARBON 4.7K 5%	1/6W	R251	1-247-817-00	CARBON 270 5%	1/6W
R104	1-249-421-11	CARBON 2.2K 5%	1/6W	R252	1-249-405-11	CARBON 100 5%	1/6W
R105	1-249-421-11	CARBON 2.2K 5%	1/6W	R253	1-249-441-11	CARBON 100K 5%	1/6W
R106	1-247-891-00	CARBON 330K 5%	1/6W	R254	1-249-417-11	CARBON 1K 5%	1/6W
R108	1-247-869-00	CARBON 39K 5%	1/6W	R255	1-249-469-11	CARBON 100K 5%	1/4W
R109	1-247-869-00	CARBON 39K 5%	1/6W	R256	1-247-857-00	CARBON 12K 5%	1/6W
R110	1-247-869-00	CARBON 39K 5%	1/6W	R257	1-249-465-11	CARBON 47K 5%	1/4W
R111	1-249-434-11	CARBON 27K 5%	1/6W	R258	1-249-425-11	CARBON 4.7K 5%	1/6W
R112	1-249-434-11	CARBON 27K 5%	1/6W	R259	1-249-437-11	CARBON 47K 5%	1/6W
R201	1-247-803-00	CARBON 68 5%	1/6W	R261	1-247-815-00	CARBON 220 5%	1/6W
R202	1-247-875-00	CARBON 68K 5%	1/6W	R262	1-249-405-11	CARBON 100 5%	1/6W
R203	1-247-875-00	CARBON 68K 5%	1/6W	R263	1-249-441-11	CARBON 100K 5%	1/6W
R206	1-249-414-11	CARBON 560 5%	1/6W	R264	1-249-415-11	CARBON 680 5%	1/6W
R207	1-247-833-00	CARBON 1.2K 5%	1/6W	R265	1-249-469-11	CARBON 100K 5%	1/4W
R208	1-247-823-00	CARBON 470 5%	1/6W	R266	1-247-857-00	CARBON 12K 5%	1/6W
R209	1-247-811-00	CARBON 150 5%	1/6W	R267	1-249-465-11	CARBON 47K 5%	1/4W
R210	1-249-414-11	CARBON 560 5%	1/6W	R271	1-247-819-00	CARBON 330 5%	1/6W
R211	1-249-420-11	CARBON 1.8K 5%	1/6W	R272	1-249-405-11	CARBON 100 5%	1/6W
R212	1-247-857-00	CARBON 12K 5%	1/6W	R273	1-249-441-11	CARBON 100K 5%	1/6W
R213	1-249-429-11	CARBON 10K 5%	1/6W	R274	1-247-823-00	CARBON 470 5%	1/6W
R214	1-249-435-11	CARBON 33K 5%	1/6W	R275	1-249-469-11	CARBON 100K 5%	1/4W
R216	1-249-417-11	CARBON 1K 5%	1/6W	R276	1-247-857-00	CARBON 12K 5%	1/6W
				R277	1-249-465-11	CARBON 47K 5%	1/4W
				R282	1-249-422-11	CARBON 2.7K 5%	1/6W

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R283	1-249-414-11	CARBON	560 5% 1/6W	R341	1-247-829-00	CARBON	820 5% 1/6W
R284	1-247-857-00	CARBON	12K 5% 1/6W	R342	1-249-421-11	CARBON	2.2K 5% 1/6W
R285	1-247-853-00	CARBON	8.2K 5% 1/6W	R343	1-249-433-11	CARBON	22K 5% 1/6W
R286	1-247-815-00	CARBON	220 5% 1/6W	R344	1-247-823-00	CARBON	470 5% 1/6W
R287	1-249-441-11	CARBON	100K 5% 1/6W	R345	1-247-849-00	CARBON	5.6K 5% 1/6W
R288	1-249-405-11	CARBON	100 5% 1/6W	R346	1-247-851-00	CARBON	6.8K 5% 1/6W
R289	1-249-433-11	CARBON	22K 5% 1/6W	R347	1-249-421-11	CARBON	2.2K 5% 1/6W
R291	1-249-417-11	CARBON	1K 5% 1/6W	R349	1-249-421-11	CARBON	2.2K 5% 1/6W
R292	1-216-357-00	METAL OXIDE	4.7 5% 1W	R350	1-247-823-00	CARBON	470 5% 1/6W
R293	1-249-447-11	CARBON	1 5% 1/4W	R351	1-247-829-00	CARBON	820 5% 1/6W
R294	1-249-459-11	CARBON	12K 5% 1/4W	R352	1-249-421-11	CARBON	2.2K 5% 1/6W
R295	1-247-851-00	CARBON	6.8K 5% 1/6W	R353	1-249-433-11	CARBON	22K 5% 1/6W
R296	1-249-423-11	CARBON	3.3K 5% 1/6W	R354	1-246-523-00	CARBON	120K 5% 1/4W
R298	1-247-823-00	CARBON	470 5% 1/6W	R355	1-247-845-00	CARBON	3.9K 5% 1/6W
R300	1-249-440-11	CARBON	82K 5% 1/6W	R356	1-249-425-11	CARBON	4.7K 5% 1/6W
R301	1-249-419-11	CARBON	1.5K 5% 1/6W	R357	1-247-851-00	CARBON	6.8K 5% 1/6W
R302	1-249-435-11	CARBON	33K 5% 1/6W	R358	1-247-891-00	CARBON	330K 5% 1/6W
R303	1-249-435-11	CARBON	33K 5% 1/6W	R359	1-247-859-00	CARBON	15K 5% 1/6W
R304	1-247-815-00	CARBON	220 5% 1/6W	R361	1-249-441-11	CARBON	100K 5% 1/6W
R305	1-249-421-11	CARBON	2.2K 5% 1/6W	R362	1-249-441-11	CARBON	100K 5% 1/6W
R306	1-247-821-00	CARBON	390 5% 1/6W	R363	1-249-441-11	CARBON	100K 5% 1/6W
R307	1-249-417-11	CARBON	1K 5% 1/6W	R364	1-249-423-11	CARBON	3.3K 5% 1/6W
R308	1-247-883-00	CARBON	150K 5% 1/6W	R365	1-249-423-11	CARBON	3.3K 5% 1/6W
R309	1-247-815-00	CARBON	220 5% 1/6W	R366	1-249-423-11	CARBON	3.3K 5% 1/6W
R310	1-249-421-11	CARBON	2.2K 5% 1/6W	R367	1-247-815-00	CARBON	220 5% 1/6W
R311	1-247-897-00	CARBON	560K 5% 1/6W	R368	1-249-405-11	CARBON	100 5% 1/6W
R312	1-247-895-00	CARBON	470K 5% 1/6W	R371	1-249-422-11	CARBON	2.7K 5% 1/6W
R313	1-247-883-00	CARBON	150K 5% 1/6W	R372	1-249-422-11	CARBON	2.7K 5% 1/6W
R314	1-247-853-00	CARBON	8.2K 5% 1/6W	R373	1-249-422-11	CARBON	2.7K 5% 1/6W
R315	1-247-853-00	CARBON	8.2K 5% 1/6W	R374	1-247-819-00	CARBON	330 5% 1/6W
R317	1-247-893-00	CARBON	390K 5% 1/6W	R375	1-247-819-00	CARBON	330 5% 1/6W
R318	1-249-425-11	CARBON	4.7K 5% 1/6W	R376	1-247-819-00	CARBON	330 5% 1/6W
R319	1-249-433-11	CARBON	22K 5% 1/6W	R377	1-249-415-11	CARBON	680 5% 1/6W
R320	1-247-853-00	CARBON	8.2K 5% 1/6W	R378	1-247-889-00	CARBON	270K 5% 1/6W
R321	1-249-441-11	CARBON	100K 5% 1/6W	R379	1-247-903-00	CARBON	1M 5% 1/6W
R322	1-249-440-11	CARBON	82K 5% 1/6W	R380	1-247-891-00	CARBON	330K 5% 1/6W
R323	1-247-851-00	CARBON	6.8K 5% 1/6W	R381	1-249-429-11	CARBON	10K 5% 1/6W
R324	1-247-851-00	CARBON	6.8K 5% 1/6W	R382	1-249-429-11	CARBON	10K 5% 1/6W
R325	1-249-440-11	CARBON	82K 5% 1/6W	R383	1-247-859-00	CARBON	15K 5% 1/6W
R326	1-249-497-11	CARBON	33K 5% 1/4W	R384	1-247-887-00	CARBON	220K 5% 1/6W
R327	1-247-883-00	CARBON	150K 5% 1/6W	R385	1-247-889-00	CARBON	270K 5% 1/6W
R328	1-246-511-00	CARBON	39K 5% 1/4W	R386	1-247-875-00	CARBON	68K 5% 1/6W
R330	1-249-423-11	CARBON	3.3K 5% 1/6W	R387	1-247-869-00	CARBON	39K 5% 1/6W
R331	1-247-857-00	CARBON	12K 5% 1/6W	R388	1-249-422-11	CARBON	2.7K 5% 1/6W
R332	1-247-859-00	CARBON	15K 5% 1/6W	R389	1-249-418-11	CARBON	1.2K 5% 1/6W
R333	1-249-421-11	CARBON	2.2K 5% 1/6W	R390	1-247-813-00	CARBON	180 5% 1/6W
R334	1-247-821-00	CARBON	390 5% 1/6W	R391	1-247-859-00	CARBON	15K 5% 1/6W
R335	1-247-823-00	CARBON	470 5% 1/6W	R392	1-247-823-00	CARBON	470 5% 1/6W
R336	1-249-429-11	CARBON	10K 5% 1/6W	R394	1-247-815-00	CARBON	220 5% 1/6W
R337	1-247-875-00	CARBON	68K 5% 1/6W	R395	1-247-815-00	CARBON	220 5% 1/6W
R338	1-247-875-00	CARBON	68K 5% 1/6W	R396	1-247-815-00	CARBON	220 5% 1/6W
R339	1-247-853-00	CARBON	8.2K 5% 1/6W	R401	1-249-432-11	CARBON	18K 5% 1/6W
R340	1-249-432-11	CARBON	18K 5% 1/6W	R402	1-249-435-11	CARBON	33K 5% 1/6W

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

C	H1	H2	K
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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
RV708	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M		R004	1-249-437-11	CARBON 47K 5% 1/6W	
RV709A	1-230-619-11	RES, ADJ, METAL GLAZE 110M		R005	1-249-437-11	CARBON 47K 5% 1/6W	
<u>SPARK GAP</u>				R006	1-249-429-11	CARBON 10K 5% 1/6W	
SG701	1-519-030-00	DISCHARGE ELEMENT		R007	1-247-845-00	CARBON 3.9K 5% 1/6W	
SG702	1-519-030-00	DISCHARGE ELEMENT		<u>VARIABLE RESISTOR</u>			
SG703	1-519-030-00	DISCHARGE ELEMENT		RV001	1-237-362-11	RES, VAR, CARBON (WITH SW) 10KX3	
*****				*****			
*1-619-222-11	H1 BOARD	*****		*A-1385-039-A	K BOARD, COMPLETE	*****	
*1-564-449-11	PLUG, CONNECTOR (2.5MM) 13P			1-507-892-71	JACK, PIN 1P		
*4-376-410-01	HOLDER (B), LED			1-560-751-21	CONNECTOR ASSY, BNC		
*4-380-083-01	HOLDER (E), LED			2-269-321-00	COVER, SPARK KILLER		
<u>DIODE</u>				<u>CAPACITOR</u>			
D2001	8-719-920-66	DIODE SLR-54VC12		C1001	1-123-380-00	ELECT 1MF 20% 50V	
D2002	8-719-920-66	DIODE SLR-54VC12		C1002	1-123-356-00	ELECT 10MF 20% 16V	
D2003	8-719-101-41	DIODE RD3.9E-L2		C1004	1-123-333-00	ELECT 100MF 20% 16V	
<u>IC</u>				C1011	1-123-323-00	ELECT 470MF 20% 16V	
IC1	8-741-139-80	IC BX1398		C1012	1-123-333-00	ELECT 100MF 20% 16V	
<u>RESISTOR</u>				C1013	1-161-059-00	CERAMIC 0.047MF 10% 25V	
R2001	1-249-419-11	CARBON 1.5K 5% 1/6W		C1022	1-102-503-00	CERAMIC 3PF 0.25PF 50V	
R2002	1-249-405-11	CARBON 100 5% 1/6W		C1024	1-124-010-00	ELECT 100MF 20% 25V	
<u>SWITCH</u>				C1025	1-123-323-00	ELECT 470MF 20% 16V	
S2007	1-553-976-00	SWITCH, PUSH		C1026	1-161-059-00	CERAMIC 0.047MF 10% 25V	
S2008	1-552-765-00	SWITCH, KEYBOARD		C1027	1-102-848-00	CERAMIC 180PF 5% 50V	
S2009	1-552-765-00	SWITCH, KEYBOARD		C1032	1-124-002-11	ELECT 1MF 20% 50V	
S2010	1-552-765-00	SWITCH, KEYBOARD		C1033	1-123-321-00	ELECT 220MF 20% 16V	
S2011	1-552-765-00	SWITCH, KEYBOARD		C1060	1-102-038-00	CERAMIC 0.001MF 500V	
S2020	1-570-342-11	SWITCH, PUSH (6 KEY)		C1061	1-123-334-00	ELECT 220MF 20% 25V	
*****				C1062	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
*1-619-223-11	H2 BOARD	*****		C1063	1-123-332-00	ELECT 47MF 20% 16V	
*1-564-443-11	PLUG, CONNECTOR (2.5MM) 7P			C1065	1-162-578-00	CERAMIC 0.0047MF 20% 400V	
<u>DIODE</u>				C1066	1-162-578-00	CERAMIC 0.0047MF 20% 400V	
D001	8-719-911-19	DIODE 1SS119		C1067	1-162-578-00	CERAMIC 0.0047MF 20% 400V	
<u>TRANSISTOR</u>				C1068	1-162-578-00	CERAMIC 0.0047MF 20% 400V	
Q001	8-729-178-54	TRANSISTOR 2SC2		<u>DIODE</u>			
<u>RESISTOR</u>				D1012	8-719-100-30	DIODE RD5.1E-B2	
R001	1-247-845-00	CARBON 3.9K 5% 1/6W		D1013	8-719-911-19	DIODE 1SS119	
R002	1-249-429-11	CARBON 10K 5% 1/6W		D1060	8-719-920-04	DIODE ERB12-04RK	
R003	1-249-437-11	CARBON 47K 5% 1/6W		D1062	8-719-110-36	DIODE RD13ES-B2	
				<u>IC</u>			
				IC1001A	8-719-800-74	DIODE TLP651-VIDEO	
				IC1002A	8-719-801-59	DIODE TLP631	
				<u>CONNECTOR</u>			
				K1	*1-564-441-11	PLUG, CONNECTOR (2.5MM) 5P	
				K2	*1-564-354-00	PLUG, CONNECTOR (2.5MM) 3P	

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

K

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>TRANSISTOR</u>							
Q1001	8-729-178-54	TRANSISTOR 2SC2785		△.1-451-272-12	DEFLECTION YOKE (SY-140A)		
Q1011	8-729-178-54	TRANSISTOR 2SC2785		1-452-032-00	MAGNET, DISK; 10MM ∅		
Q1021	8-729-178-54	TRANSISTOR 2SC2785		1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ∅		
Q1022	8-729-178-54	TRANSISTOR 2SC2785		1-452-277-00	MAGNET, BMC		
Q1031	8-729-178-54	TRANSISTOR 2SC2785		△.1-534-817-71	CORD, POWER		
Q1032	8-729-178-54	TRANSISTOR 2SC2785		△.1-536-494-11	ANT TERMINAL ASSY		
Q1060	8-729-177-43	TRANSISTOR 2SD774		1-543-171-00	CORE, RING		
<u>RESISTOR</u>				*1-556-877-51	CABLE, PIN		
R1001	1-249-417-11	CARBON 1K 5% 1/6W		L901 △.1-426-244-22	COIL, DEMAGNETIZATION		
R1002	1-249-441-11	CARBON 100K 5% 1/6W		S901 △.1-554-966-12	SWITCH, PUSH (AC POWER)(1 KEY)		
R1003	1-249-433-11	CARBON 22K 5% 1/6W		SP901 1-503-542-11	SPEAKER		
R1004	1-249-421-11	CARBON 2.2K 5% 1/6W		SP902 1-503-256-00	SPEAKER (040T004)		
R1005	1-249-415-11	CARBON 680 5% 1/6W		T851 △.1-439-363-31	TRANSFORMER ASSY, FLYBACK		
R1010	1-247-804-00	CARBON 75 5% 1/6W		V901 △.8-737-351-05	CRT (A49JLV10X)		
R1011	1-249-405-11	CARBON 100 5% 1/6W		*****			
R1012	1-247-851-00	CARBON 6.8K 5% 1/6W		ACCESSORIES AND PACKING MATERIALS			
R1013	1-249-421-11	CARBON 2.2K 5% 1/6W		*****			
R1014	1-247-813-00	CARBON 180 5% 1/6W		Part No.	Description	Remark	
R1021	1-247-853-00	CARBON 8.2K 5% 1/6W		A-1470-760-A	COMMANDER ASSY (RM-652)		
R1022	1-249-417-11	CARBON 1K 5% 1/6W		△.1-417-094-11	MIXER, U/V (PAL)		
R1023	1-249-405-11	CARBON 100 5% 1/6W		1-501-329-11	ANTENNA, TELESCOPIC		
R1024	1-249-419-11	CARBON 1.5K 5% 1/6W		1-506-409-00	ADAPTOR, CONVERSION		
R1025	1-247-875-00	CARBON 68K 5% 1/6W		1-513-382-00	ANTENNA MUTCHING		
R1026	1-247-869-00	CARBON 39K 5% 1/6W		4-377-015-01	BAG, PROTECTION		
R1027	1-247-823-00	CARBON 470 5% 1/6W		4-377-039-01	CUSHION (UPPER) (ASSY)		
R1028	1-247-823-00	CARBON 470 5% 1/6W		4-377-040-01	CUSHION (LOWER) (ASSY)		
R1031	1-249-405-11	CARBON 100 5% 1/6W		*4-382-405-01	INDIVIDUAL CARTON		
R1032	1-249-425-11	CARBON 4.7K 5% 1/6W		4-482-272-61	MANUAL, INSTRUCTION		
R1033	1-249-421-11	CARBON 2.2K 5% 1/6W					
R1034	1-247-849-00	CARBON 5.6K 5% 1/6W					
R1035	1-249-423-11	CARBON 3.3K 5% 1/6W					
R1036	1-249-417-11	CARBON 1K 5% 1/6W					
R1037	1-249-396-11	CARBON 18 5% 1/6W F					
R1038	1-249-433-11	CARBON 22K 5% 1/6W					
R1062	1-249-414-11	CARBON 560 5% 1/6W					
R1063	1-249-377-11	CARBON 0.47 5% 1/6W F					
R1065	1-247-289-00	CARBON 8.2M 5% 1W					
<u>VARIABLE RESISTOR</u>							
RV1021	1-230-630-11	RES, ADJ, CARBON 10K					
RV1031	1-230-632-11	RES, ADJ, CARBON 33K					
<u>TRANSFORMER</u>							
T1001	△.1-421-823-11	TRANSFORMER, PULSE					

<u>MISCELLANEOUS</u>							

△.1-230-940-11 RESISTOR ASSY, HIGH-VOLTAGE							

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

SONY TRINITRON® COLOR TV KV-2092AEB/RM-652


PX Model
Chassis No. SCC-A13A-A

XE-4 CHASSIS

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.


SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

WARNUNG!!

DAS GERÄT NUR ÜBER EINEN TRENNTRANSFORMATOR BETREIBEN, UM ELEKTRISCHE SCHLÄGE ZU VERMEIDEN, DA DAS CHASSIS UNTER SPANNUNG STEHT! DAS CHASSIS DIESER GERÄTS IST DIREKT AN DIE WECHSELSTROMLEITUNG ANGESCHLOSSEN.

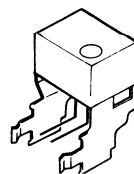
SICHERHEITSHINWEIS FÜR KOMPONENTEN!!

DIE IN DEN SCHALTBILDERN SCHRAFFIERT EINGEZEICHNETEN UND DURCH DAS ZEICHEN  GEKENNZEICHNETEN KOMPONENTEN SIND FÜR DIE BETRIEBSSICHERHEIT KRITISCH. DIESE KOMPONENTEN SIND DURCH SOLCHE SONY TEILE ZU ERSETZEN, DEREN TEILENUMMERN IM HANDBUCH ANGEGBEN SIND.

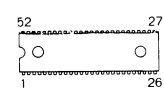
AUF FÜR DIE BETRIEBSSICHERHEIT KRITISCHE SCHALTUNGSEINSTELLUNGEN WIRD IN DEM VON SONY HERAUSGEGEBENEN HANDBUCH HINGEWIESEN. BEFOLGEN SIE DIESE ANWEISUNGEN STETS, WENN KRITISCHE KOMPONENTEN AUSGEWECHSELT WERDEN ODER VERDACHT AUF FUNKTIONSSSTÖRUNGEN BESTEHT.

SEMICONDUCTORS

BX1398

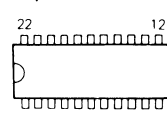


M50436-511SP
M50436-551SP



TOP VIEW
NJM7812B

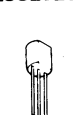
μPC1377C



(Top view)

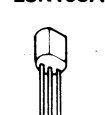
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2SC2026




2SC2026


2SK105A










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



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ERB12-02
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ERD28-085
ES1F
GP08D
RD3.3EL1
RD3.9EL1
RD5.1E-B
RD5.1EL3




Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Anmerkung: Die schraffiert eingezeichneten und durch das Zeichen  gekennzeichneten Komponenten sind für die Betriebssicherheit kritisch. Nur durch solche Komponenten mit angegebener Teilenummer ersetzen.

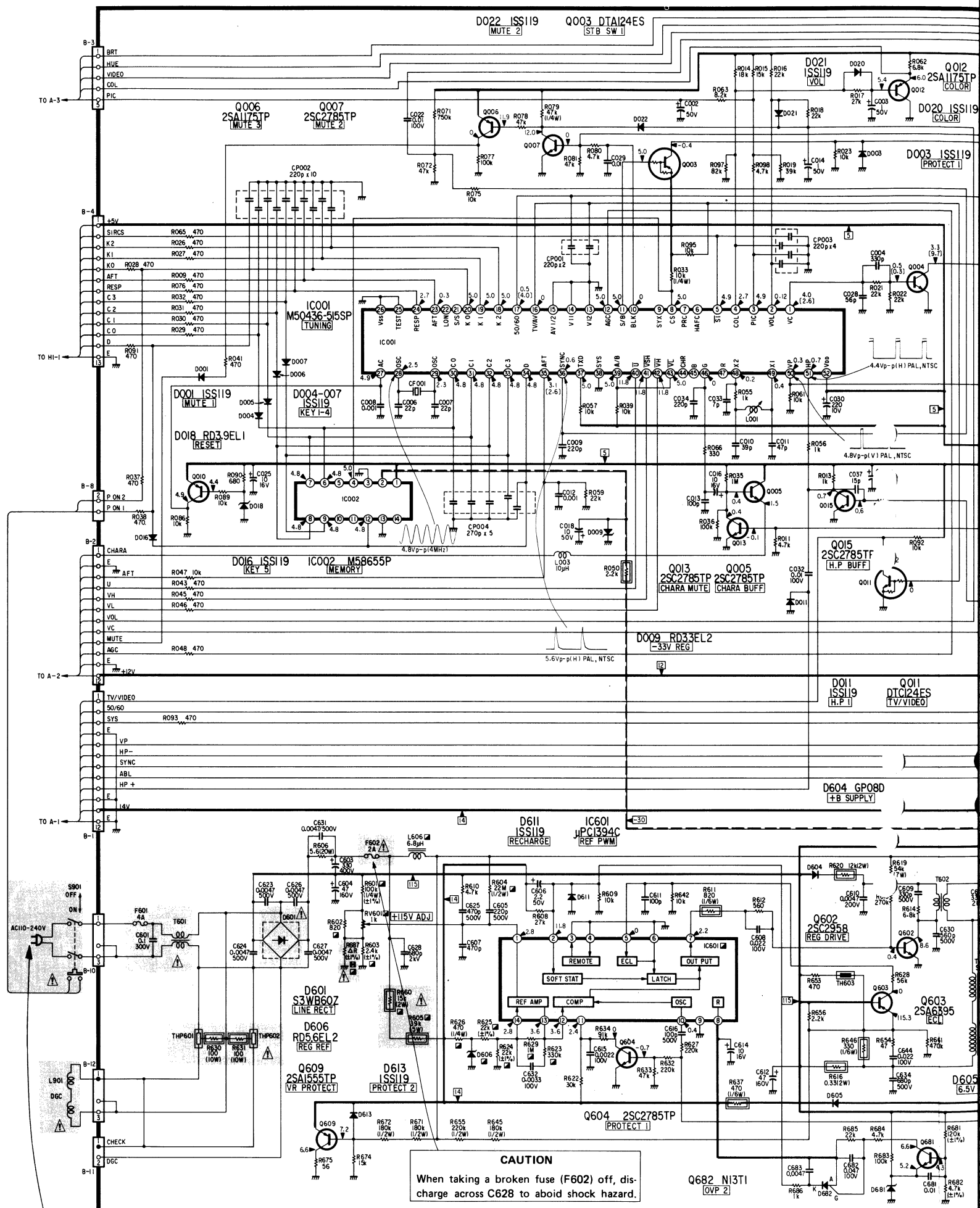
Note:

- All capacitors are in μF unless otherwise noted. P: μF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. k: 1000 Ω , M: 1000k Ω .
- : nonflammable resistor.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : fusible resistor.
- : internal component.
- : panel designation.
- The components identified by  in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved. (Refer to R687, R829, adjustment on page 11~14.)

Part replaced ()	Adjustment ()
B Board IC501, Q806, Q807, Q808, Q809, D803, D804, C532, C831, C833, C834, C835, C836, C856, C857, R534, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R857, R858, R859.	HOLD DOWN  R829 Adjustment
B Board IC601, D606, L606, RV601, R601, R602, R603, R604, R605, R623, R624, R625, R626, R629, R660, R687.	+B MAX  R687 Adjustment

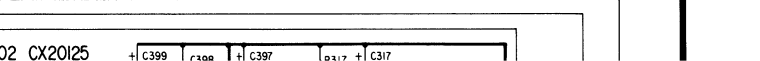
- All voltages in V
- : B+ bus.
- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M Ω digital multimeter.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken with a color-bar signal input.
- : adjustment for repair.
- no mark: with PAL color-bar signal received.
- []: with NTSC (3.58) color-bar signal received.

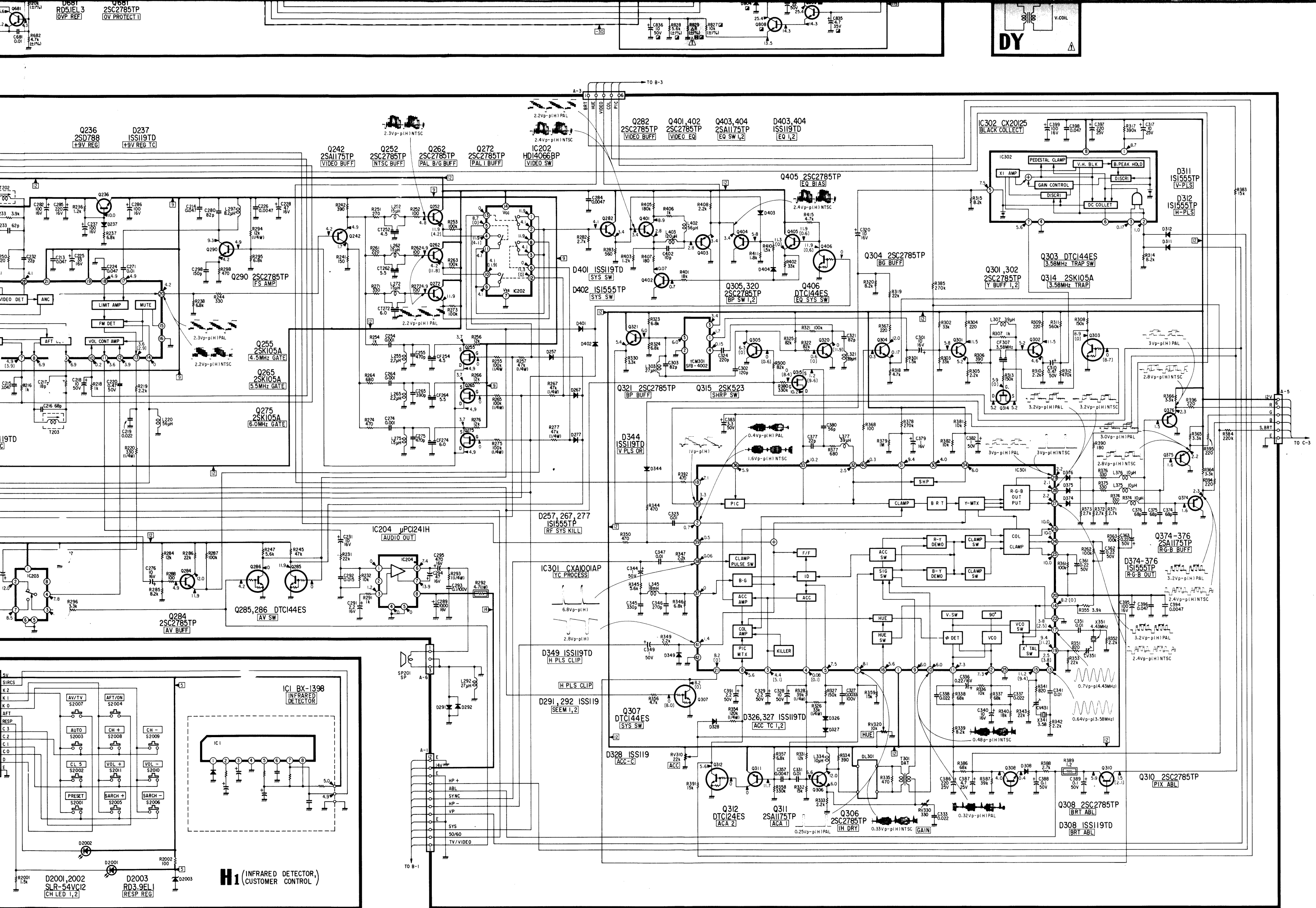
SCHEMATIC DIAGRAM



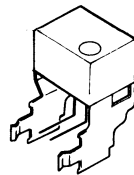
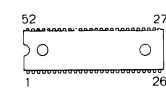
CAUTION
This set is equipped with a polarized ac power

CAUTION
When taking a broken fuse (F602) off, discharge across C628 to avoid shock hazard.



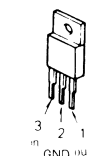


BX1398

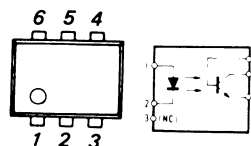
M50436-511SP
M50436-551SP

TOP VIEW

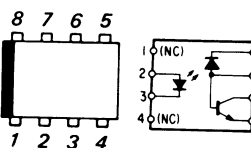
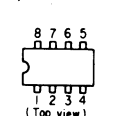
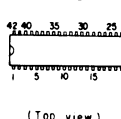
NJM7812B



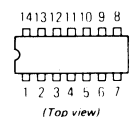
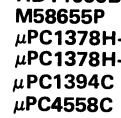
TLP631



TLP651

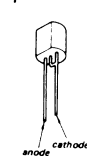
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CX20125CX23025
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CXA1001AP

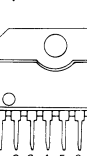


(Top view)

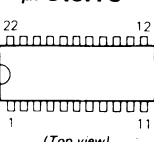
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μPC1241H

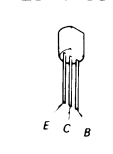
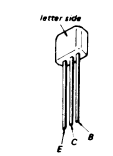
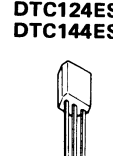


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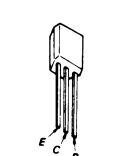


(Top view)

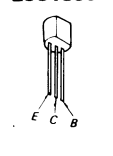
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DTC124ES
DTC144ES

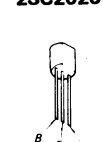
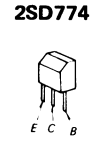
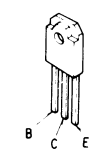
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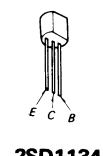
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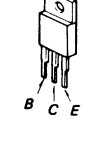
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2SD773
2SD7742SC3679
2SD1398

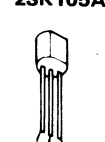
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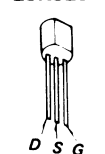
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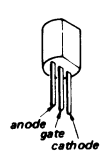
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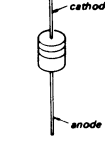
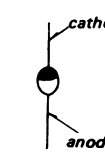
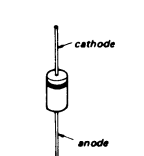
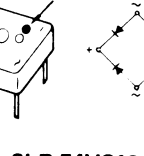
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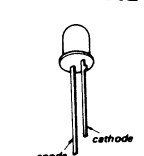
NI3T1



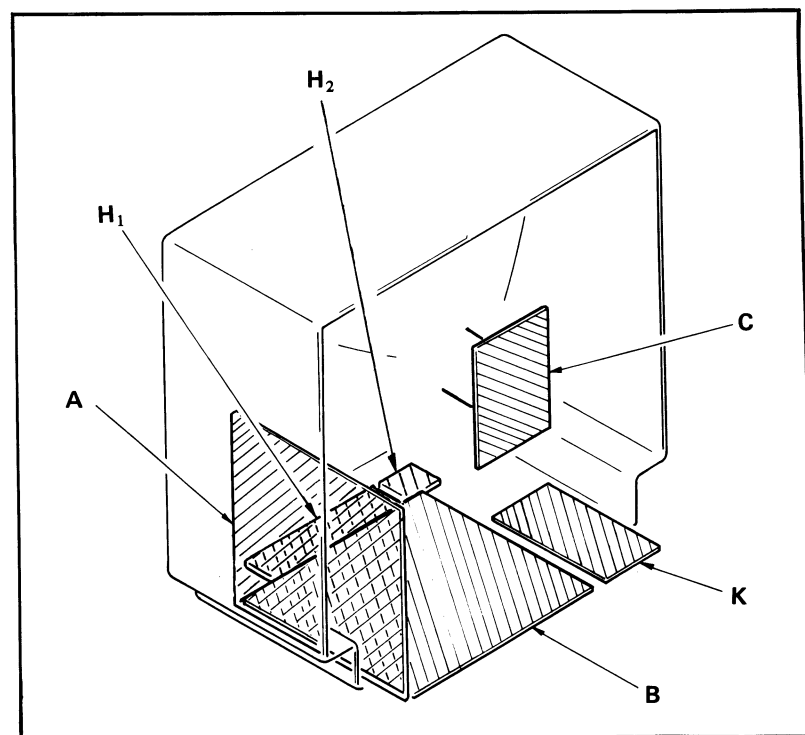
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ERB12-02RK
ERD28-085
ES1F
GP08D
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RD3.9EL1
RD5.1E-B
RD5.1EL3
RD5.6EBZ7S
RD5.6EL2
RD5.6ESB2
RD6.2ESB2
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Marking

SLR-54VC12

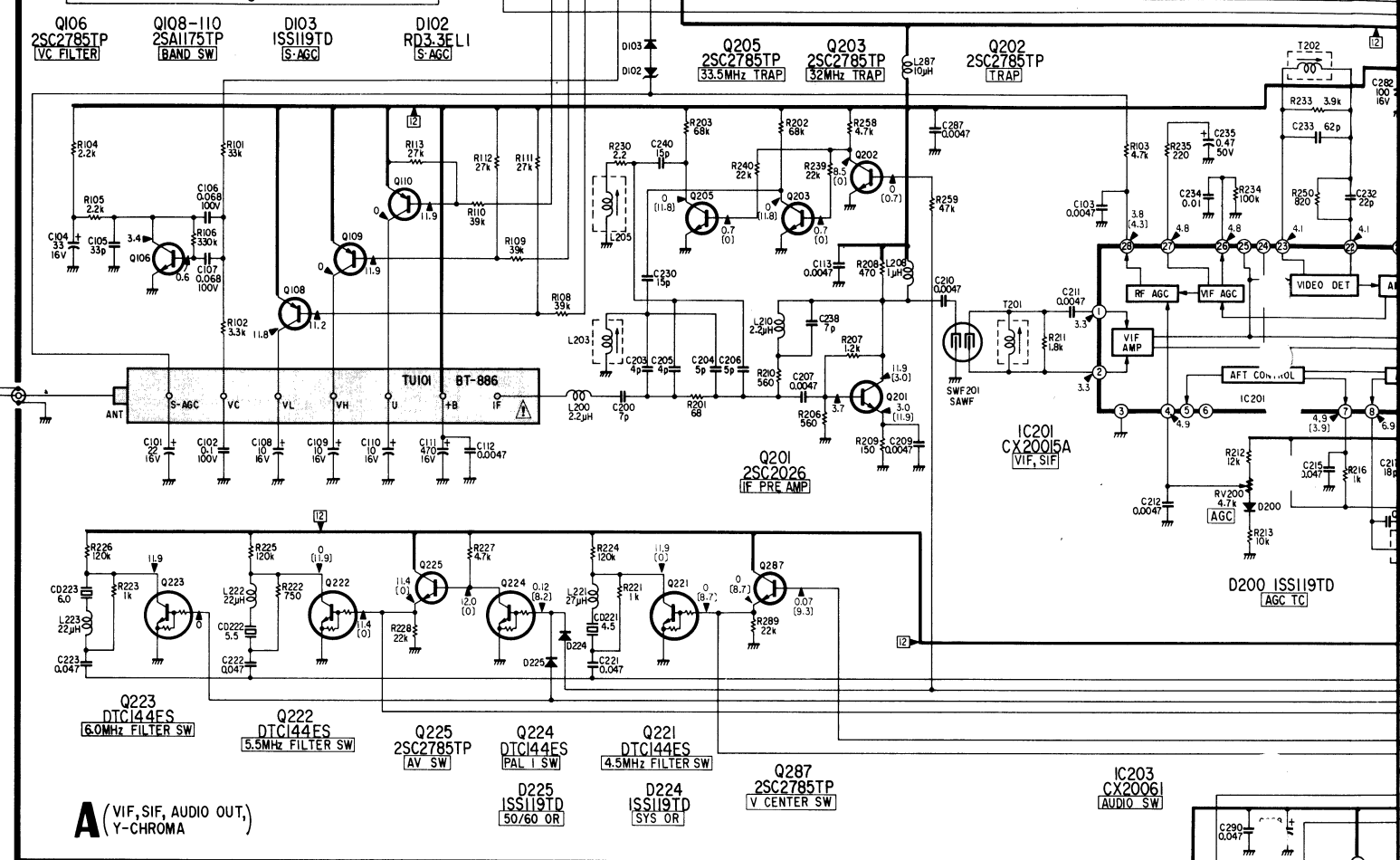


CIRCUIT BOARDS LOCATION



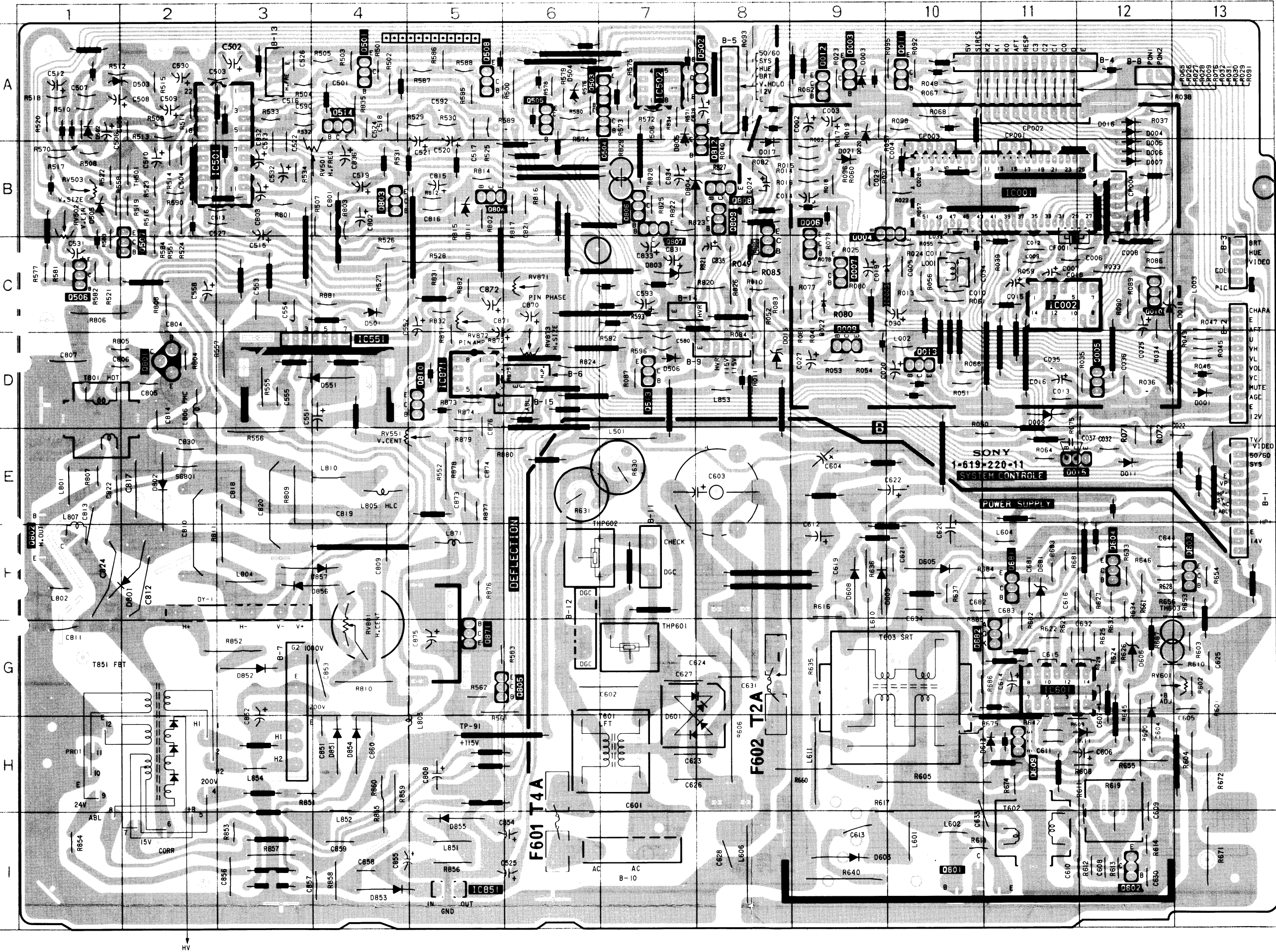
CAUTION

This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power cord, be sure to connect it with specified part number as shown in this diagram.

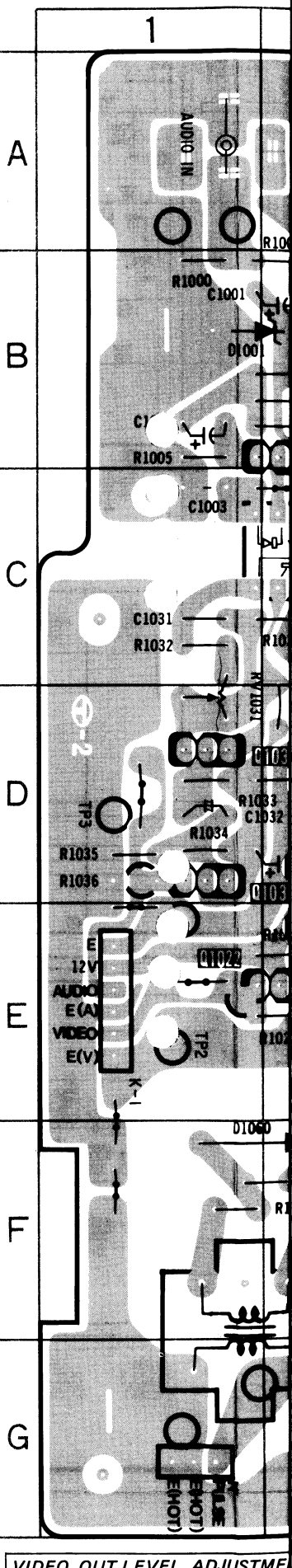


Note: All mounting diagrams are viewed from conductor side.

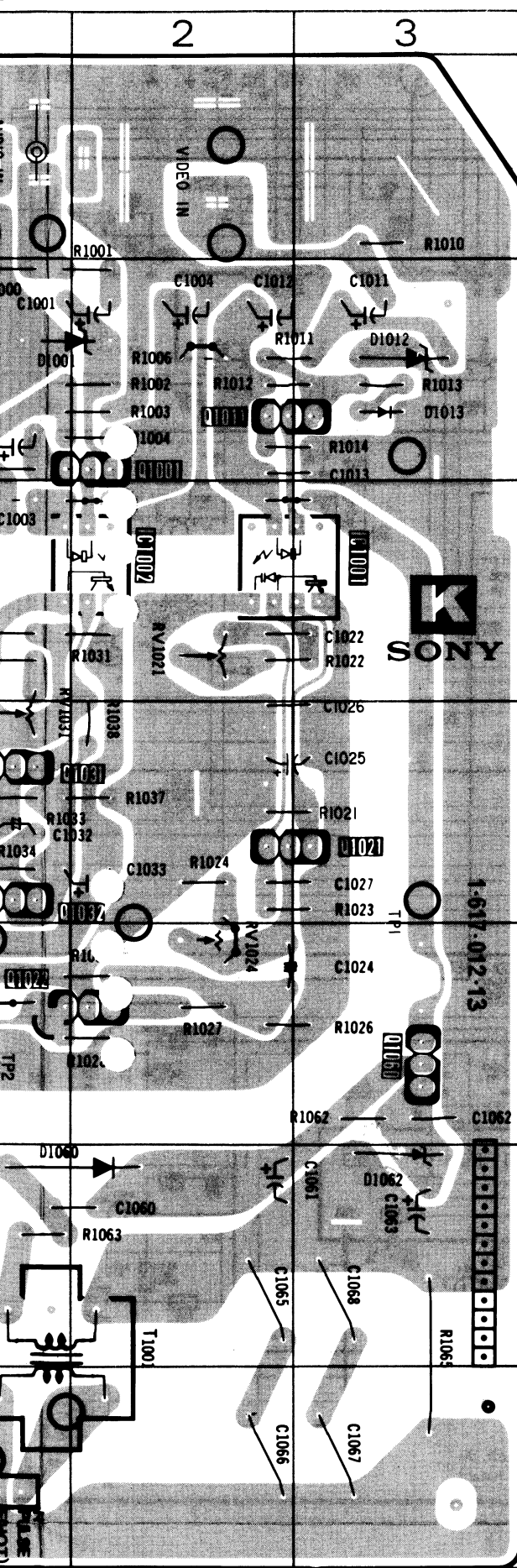
B [TUNING, H.V.-OUT,
MEMORY, 50/60 SW]



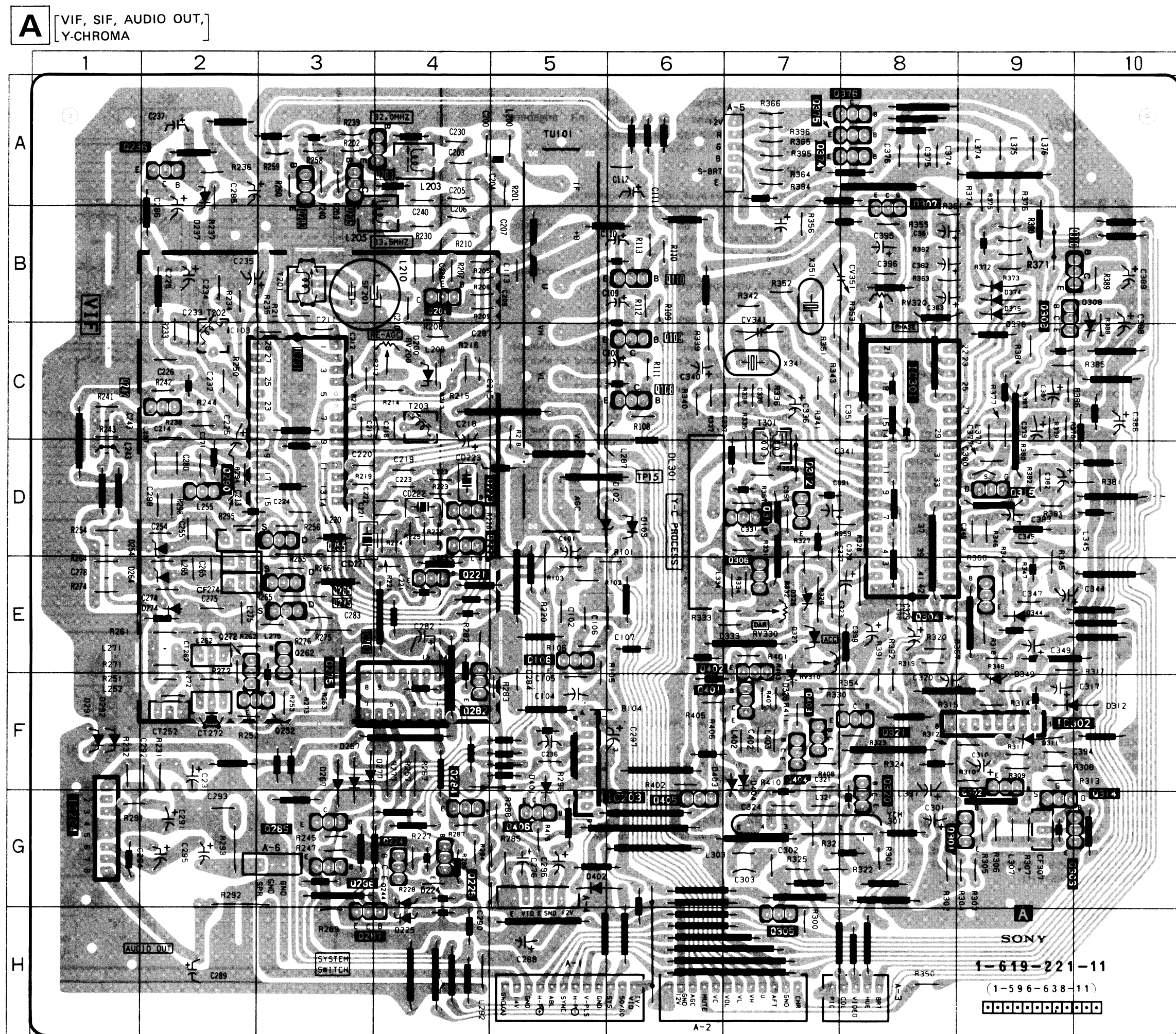
K [AUDIO IN,
VIDEO IN]



VIDEO OUT LEVEL ADJUSTMENT SETUP



ADJUSTMENT *RV1021 = C-2, K-1 = E-1*



ACC ADJUSTMENT IC301 = D-8 BV310 = E-7

ACC ADJUSTMENT

ADJUSTMENT RV1021 = C-2, K-1 = E-1

• (75Ω) input signal.

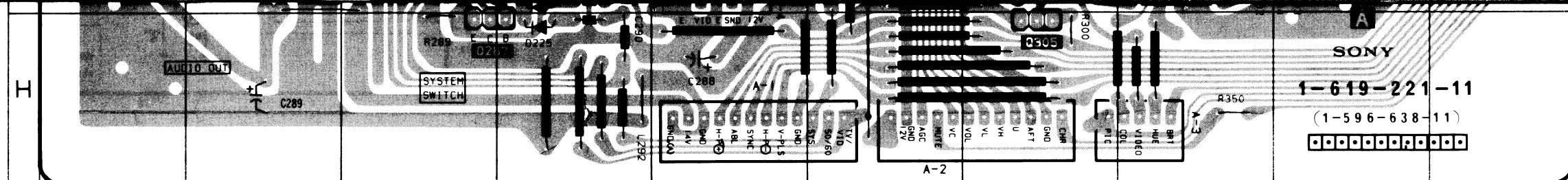
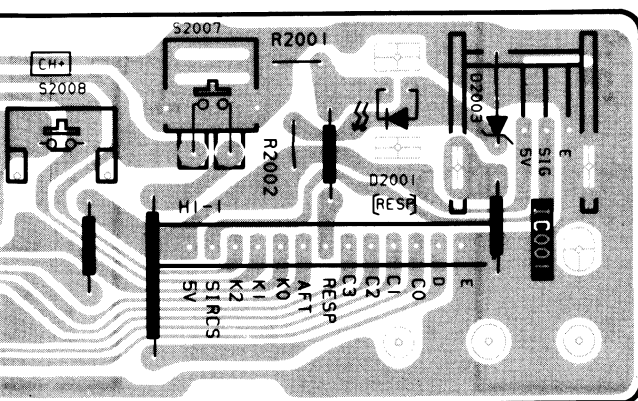
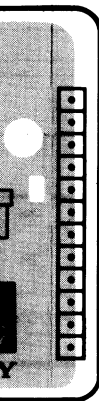
1 VIDEO LEVEL so that the signal of K-1 connector (VIDEO) becomes

pin (2) of K-1

RV1031 = D-1, K-1 = E-1

al (1 kHz sin $e -5 \text{ dBs} \pm 1 \text{ dB}$) to

1 AUDIO LE' 'CL so that the signal
f K-1 connec (AUDIO) becomes

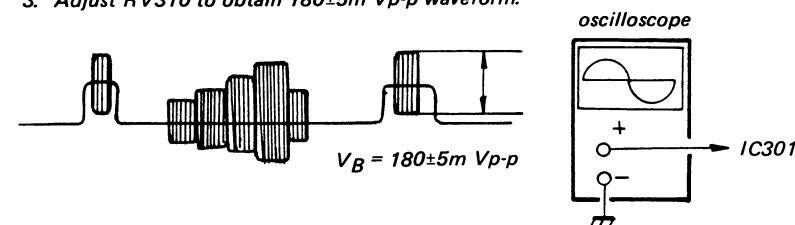


ACC ADJUSTMENT	IC301 = D-8, RV310 = E-7
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1. Feed in a color-bar signal.
2. Connect an oscilloscope to the pin (7) of IC301.
3. Adjust RV310 to obtain $180 \pm 5\text{m Vp-p}$ waveform.

AGC ADJUSTMENT RV200 = C-4

Adjust RV200 so that snow noise cross modulation adjust disappear from the picture.



CONNECTOR		C255 D-2 C264 E-2 C265 E-2 C271 C-2 C274 E-2	C383 D-9 C386 C-10 C387 C-9 C388 B-10 C389 B-10	D327 E-7 D328 E-7 D344 E-9 D349 E-9 D374 B-9	TRANSISTOR		R106 E-5 R108 E-5 R109 B-6 R110 B-6 R111 C-6	R261 E-3 R262 E-3 R263 E-3 R264 E-3 R265 E-3	R335 C-7 R336 C-7 R337 C-6 R338 C-7 R339 C-6	R407 E-7 R408 E-7 R410 E-7 R411 E-7 R415 G-5
A1 H-5 A2 H-6 A3 H-8 A4 H-5 A5 A-7		C275 E-2 C276 G-5 C278 E-1 C280 D-2 C282 E-4	C391 D-8 C394 F-9 C395 B-8 C396 B-8 C397 G-8	D375 B-9 D376 B-9 D401 F-5 D402 G-5 D403 F-7	Q106 E-5 Q108 C-6 Q109 C-6 Q110 B-6 Q201 B-4		R112 B-6 R113 B-6 R201 A-4 R202 A-4 R203 A-4	R266 E-3 R267 E-4 R271 E-2 R272 E-2 R273 E-2	R340 C-6 R341 C-7 R342 B-7 R343 C-7 R344 E-5	
CAPACITOR		C283 E-3 C284 F-5 C285 A-2 C286 A-2 C287 C-4	C398 E-8 C399 E-8 C402 F-7	D404 F-7	Q221 E-4 Q222 D-4		R205 B-4 R206 B-4 R207 B-4 R208 B-4 R209 B-4	R274 E-1 R275 E-3 R276 E-3 R277 E-4 R282 E-4	R345 E-4 R346 D-3 R347 E-3 R349 E-3 R350 H-6	
C101 D-5 C102 E-5 C103 C-3 C104 F-5 C105 F-5		C288 H-5 C289 H-5 C290 G-5 C291 G-2 C292 F-2		DELAY LINE		Q223 D-4 Q224 G-4 Q225 G-4 Q236 A-2 Q242 C-2				
C106 E-5 C107 E-6 C108 C-6 C109 B-6 C110 B-6		C293 G-2 C294 G-2 C295 G-2 C296 G-5 C297 F-6	CD221 D-3 CD222 D-4 CD223 D-4	DISCRIMINATOR		DL301 D-6		R210 B-4 R211 B-4 R212 C-4 R213 C-4 R214 C-4	R283 E-5 R284 G-4 R285 G-4 R286 G-4 R287 G-4	R351 C-7 R352 B-7 R353 C-8 R354 F-8 R355 B-8
C111 A-6 C112 A-6 C113 B-5 C200 A-4 C203 A-4		C298 D-2 C301 G-8 C302 G-7 C303 G-7 C310 F-9		IC		IC201 C-3 IC202 F-4 IC203 G-6 IC204 G-1 IC301 C-8	Q252 F-2 Q255 D-3 Q262 E-3 Q265 E-3 Q272 E-2			
C204 A-4 C205 A-4 C206 B-4 C207 B-5 C209 B-5		C317 F-9 C320 F-8 C321 F-7 C323 E-7 C324 G-7	CT252 F-2 CT262 E-2 CT272 F-2 SWF 201 B-3	FILTER		IC302 F-9	Q275 E-3 Q282 E-4 Q284 G-4 Q285 C-3 Q286 G-3	R215 C-4 R216 C-4 R217 C-4 R218 C-4 R219 C-4	R288 G-5 R289 H-3 R291 C-1 R292 C-1 R293 G-2	R356 B-7 R357 D-7 R358 D-7 R359 C-8 R361 B-8
C210 B-4 C211 B-3 C212 C-3 C213 D-2 C214 C-2		C327 D-7 C328 E-8 C329 E-8 C331 D-7 C333 E-7		COIL		L200 A-5 L203 A-4 L205 B-3 L208 C-4 L210 B-4	Q287 H-3 Q290 D-2 Q301 G-9 Q302 F-9 Q303 G-10	R220 E-5 R221 E-4 R222 D-4 R223 D-4 R224 D-4	R294 D-2 R295 E-3 R296 E-3 R298 E-3 R300 H-4	R362 B-8 R363 B-8 R364 A-7 R365 A-7 R366 A-7
C215 C-4 C216 C-4 C217 C-3 C218 C-4 C219 D-4		C332 D-7 C336 C-7 C337 C-7 C338 C-7 C340 C-6 C341 D-8		TRIMMER		L220 D-3 L221 E-4 L222 E-4 L223 D-4 L243 D-1	Q304 E-9 Q305 H-7 Q306 E-7 Q307 A-8 Q308 B-9	R225 D-4 R226 D-4 R227 G-4 R228 D-4 R229 B-4	R301 G-8 R302 G-8 R303 G-9 R304 G-9 R305 G-9	R367 E-8 R368 E-9 R371 B-9 R372 B-9 R373 B-9
C220 D-3 C221 D-3 C222 D-3 C223 D-4 C224 D-3		C344 E-9 C345 D-9 C346 D-9 C347 E-9 C349 E-9	CV341 C-7 CV351 B-8	DIODE		L252 F-1 L255 D-2 L262 E-2 L265 E-2 L271 E-1	Q310 B-9 Q311 D-7 Q312 D-7 Q314 G-9 Q315 D-9	R231 F-1 R232 F-1 R233 C-2 R234 C-2 R235 B-3	R306 G-9 R307 F-9 R308 F-9 R309 F-9 R310 F-9	R374 A-9 R375 A-9 R376 A-9 R377 C-9 R378 C-9
C225 C-2 C226 C-2 C228 B-2 C230 A-4 C231 F-2		C351 C-8 C357 D-7 C361 B-8 C362 B-8 C373 B-8	D102 D-6 D103 D-6 D200 C-4 D224 G-4 D225 H-4			L272 F-2 L275 E-2 L287 D-6 L292 H-4 L297 C-2	Q320 G-8 Q321 F-8 Q374 A-8 Q375 A-8 Q376 A-8	R236 A-2 R237 A-2 R238 C-2 R239 A-3 R230 A-3	R311 F-9 R312 F-9 R313 F-9 R314 F-9 R315 F-9	R379 G-9 R380 D-9 R381 D-10 R382 D-9 R383 D-9
C232 C-2 C233 C-2 C234 B-2 C235 B-2 C236 F-5		C374 A-8 C375 A-8 C376 A-8 C377 D-9 C379 C-9	D237 A-2 D244 G-4 D254 D-2 D257 F-3 D264 E-2			L303 G-7 L307 G-9 L321 G-7 L334 E-6 L345 D-10	Q401 F-7 Q402 E-7 Q403 F-7 Q404 F-7 Q405 G-6	R241 C-1 R242 C-2 R243 C-1 R244 C-2 R245 G-3	R317 E-9 R318 E-9 R319 E-8 R320 E-8 R321 G-7	R384 C-9 R385 C-9 R386 C-9 R387 G-9 R388 B-10
C237 A-2 C238 B-4 C240 C-4 C243 A-1 C254 D-2		C380 D-9 C382 D-9	D267 F-3 D274 E-2 D277 F-3 D291 F-1 D292 F-1			L374 A-9 L375 A-9 L376 A-9 L377 C-9 L402 F-7	Q406 G-5	R247 G-3 R250 C-3 R251 F-2 R252 F-2 R253 F-3	R322 G-8 R323 F-8 R324 F-8 R325 G-7 R326 E-7	R389 B-10 R390 B-9 R391 E-8 R392 E-8 R394 A-7
			D308 B-10 D311 F-9 D312 F-10 D326 E-7			L403 F-7	RESISTOR			
						R101 E-6 R102 E-6 R103 E-6 R104 F-5 R105 F-5		R254 D-1 R255 D-3 R256 D-3 R257 F-4 R258 A-3	R327 D-7 R328 E-8 R330 F-7 R331 D-7 R332 E-7	R395 A-7 R396 A-7 R401 E-7 R402 E-6 R403 F-7
								R259 A-3 R260 A-3	R333 E-7 R334 E-7	R405 F-6 R406 F-7

